

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-53972
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SWSE / 330 FSL / 1480 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.109509 / LONG: -103.351644 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 330 FEL / TWSP: 25S / RANGE: 35E / SECTION: 27 / LAT: 32.108311 / LONG: -103.34793 (TVD: 13100 feet, MD: 13710 feet)

PPP: NENE / 1 FNL / 330 FEL / TWSP: 25S / RANGE: 35E / SECTION: 34 / LAT: 32.094069 / LONG: -103.347927 (TVD: 13100 feet, MD: 18891 feet)

PPP: NESE / 2639 FSL / 330 FEL / TWSP: 25S / RANGE: 35E / SECTION: 27 / LAT: 32.101327 / LONG: -103.347929 (TVD: 13100 feet, MD: 16251 feet)

BHL: SESE / 50 FSL / 330 FEL / TWSP: 26S / RANGE: 35E / SECTION: 3 / LAT: 32.065188 / LONG: -103.347919 (TVD: 13100 feet, MD: 29398 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-53972	Pool Code 98117	Pool Name WC-025 G-09 S263504N;Wolfcamp
Property Code 336534	Property Name HENNIN FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3192.7'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	22	25-S	35-E		330 FSL	1480 FEL	32.109509°N	103.351644°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	34	26-S	35-E		50 FSL	330 FEL	32.065188°N	103.347919°W	LEA

Dedicated Acres 960	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	22	25-S	35-E		330 FSL	1480 FEL	32.109509°N	103.351644°W	LEA

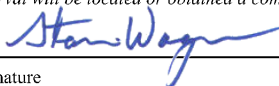
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	27	25-S	35-E		100 FNL	330 FEL	32.108311°N	103.347930°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	34	26-S	34-E		100 FSL	330 FEL	32.065325°N	103.347920°W	LEA

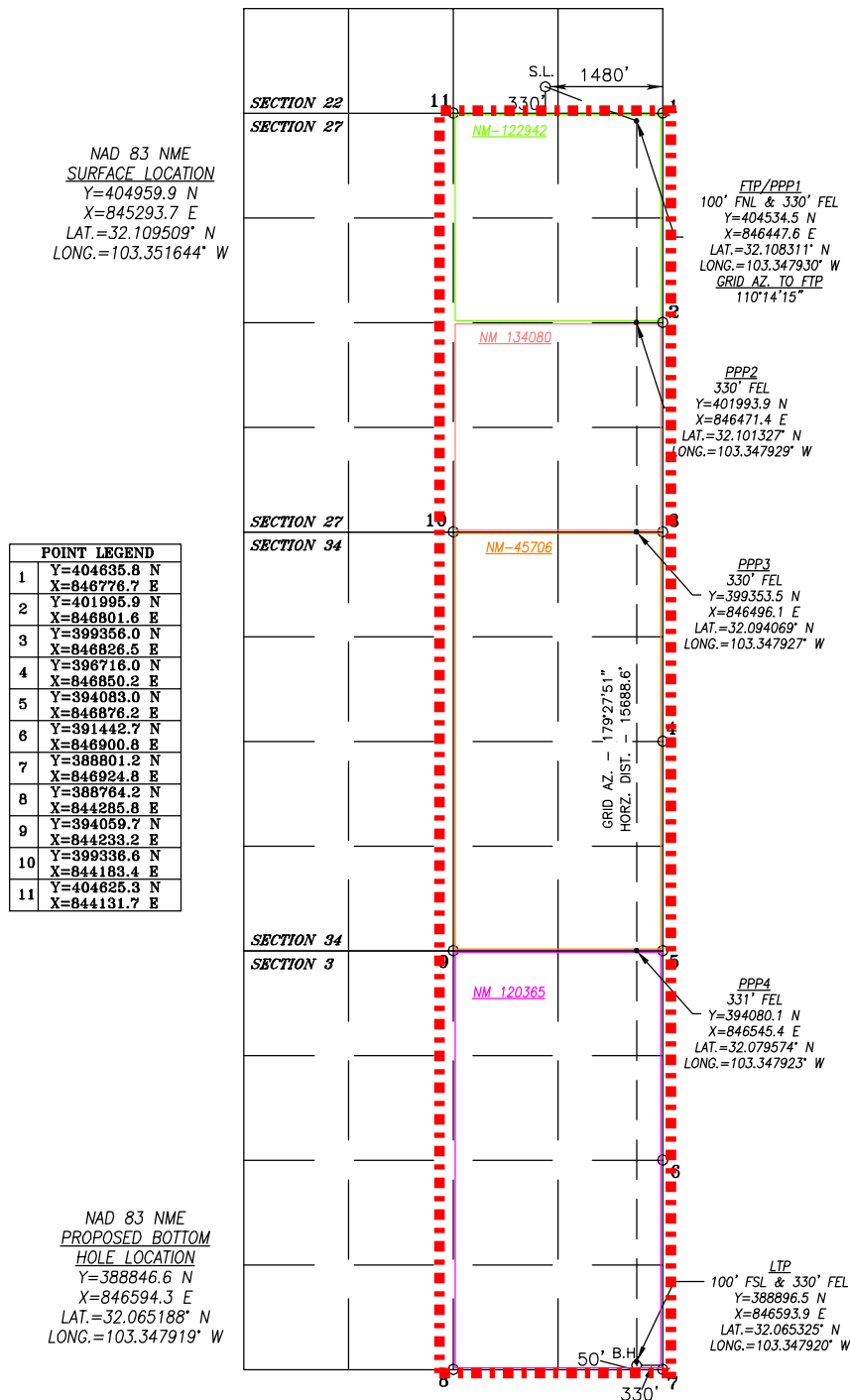
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3192.7'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
 Signature		 Signature and Seal of Professional Surveyor	
Date 9/11/23		11/7/24	
Printed Name Stan Wagner		Certificate Number 17777	Date of Survey JUNE 19, 2023
Email Address		W.O.#24-1127	DRAWN BY: WN PAGE 1 OF 2

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 09/19/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Hennin Federal Com 702H	30-025-	O-22-25S-35E	330 FSL & 1540 FEL	± 822	± 990	± 1480
Hennin Federal Com 703H	30-025-	O-22-25S-35E	330 FSL & 1510 FEL	± 1385	± 1670	± 2495
Hennin Federal Com 802H	30-025-	O-22-25S-35E	330 FSL & 1480 FEL	± 1150	± 1370	± 5590

IV. Central Delivery Point Name: 27 C CTB NENW 27-25S-35E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Hennin Federal Com	Pending	± 8/1/2025	± 25 days from spud	TBD	TBD	TBD
702H, 703H, 802H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

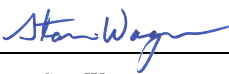
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 09/19/2023
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

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1. Geologic Formations

TVD of target	13,100' EOL	Pilot hole depth	NA
MD at TD:	29,398'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	803	Water	
Top of Salt	1160	Salt	
Base of Salt	4915	Salt	
Lamar	5246	Salt Water	
Bell Canyon	5266	Salt Water	
Cherry Canyon	6233	Oil/Gas	
Brushy Canyon	7630	Oil/Gas	
Bone Spring	8912	Oil/Gas	
1st Bone Spring Sand	10228	Oil/Gas	
2nd Bone Spring Sand	10798	Oil/Gas	
3rd Bone Spring Carb	11317	Oil/Gas	
3rd Bone Spring Sand	11899	Oil/Gas	
Wolfcamp A	12258	Oil/Gas	
Wolfcamp B	12576	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	853	10.75"	45.5	J55	BTC	5.35	1.18	18.42	20.51
9.875"	0	8000	7.625"	29.7	L80-ICY	BTC	1.54	1.02	3.06	3.09
8.750"	8000	12500	7.625"	29.7	P110-ICY	W513	1.23	1.54	2.88	1.73
6.75"	0	12000	5.5"	23	P110-CY	BTC	1.86	2.20	2.64	2.64
6.75"	12000	29,398	5.5"	23	P110-CY	W441	1.71	2.02	2.42	2.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	407	13.5	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.4	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	860	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	753	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1464	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	12,000'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.2	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Hennin Fed Com 802H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8515 psi at 13100' TVD
Abnormal Temperature	NO 185 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

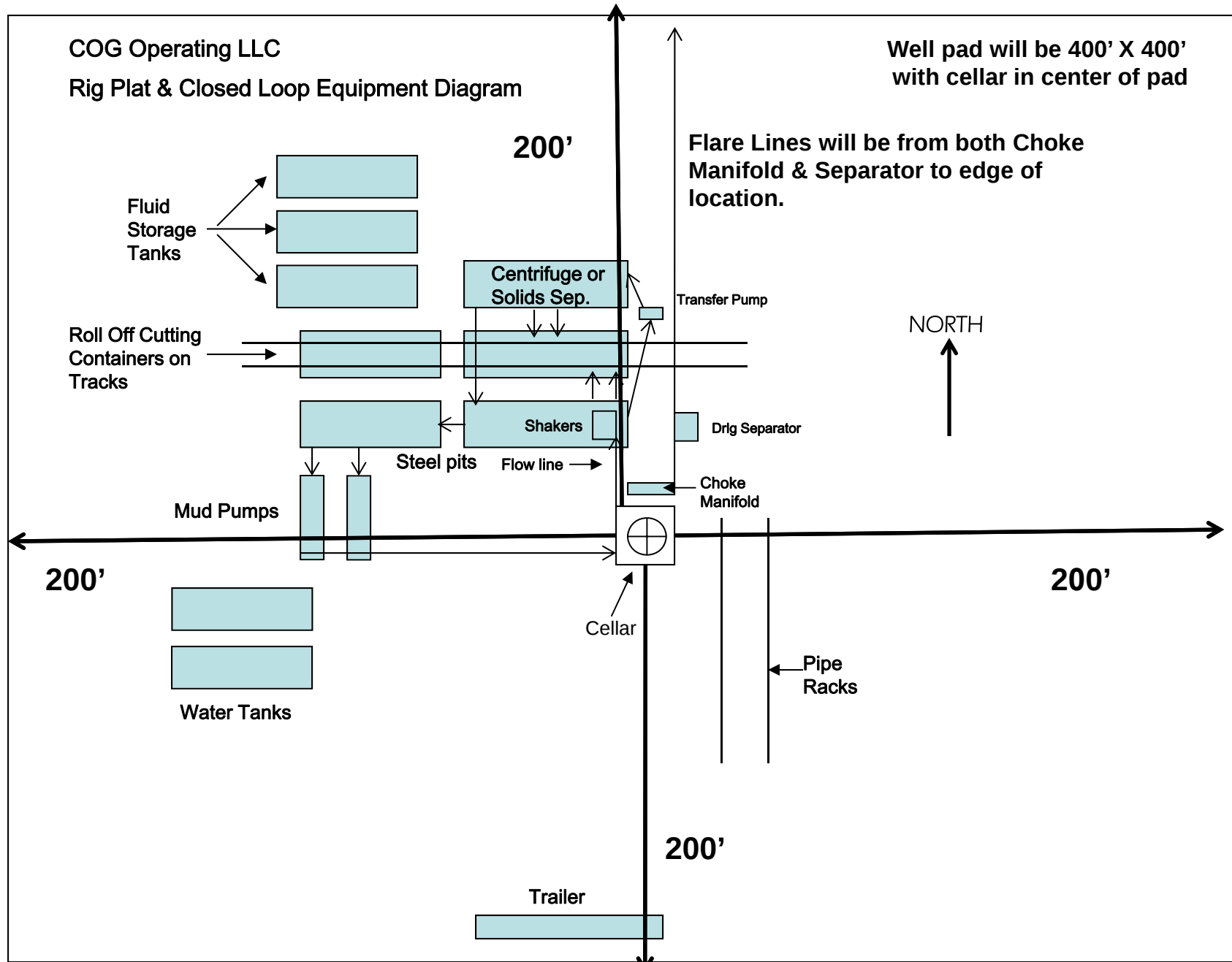


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

HENNIN PROJECT

***HENNIN FED COM #802H**

OWB

PWP0

Anticollision Report

29 June, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	6/29/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	29,398.1	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Factor	Warning	
Offset Well - Wellbore - Design						
HENNIN PROJECT						
JAVELINA FEDERAL #1 (P&A) - OWB - AWP	27,457.3	13,045.5	325.8	-263.7	0.553	Stop Drilling Now, CC, ES, S
*HENNIN FED COM #601H - OWB - PWP0						Out of range
*HENNIN FED COM #602H - OWB - PWP0						Out of range
*HENNIN FED COM #701H - OWB - PWP0						Out of range
*HENNIN FED COM #702H - OWB - PWP0	1,200.0	1,200.0	60.0	49.2	5.531	CC, ES, SF
*HENNIN FED COM #703H - OWB - PWP0	1,200.0	1,200.0	30.1	19.3	2.775	CC
*HENNIN FED COM #703H - OWB - PWP0	1,300.0	1,300.7	30.2	19.0	2.698	ES
*HENNIN FED COM #703H - OWB - PWP0	1,500.0	1,502.0	31.4	19.4	2.631	SF
*HENNIN FED COM #801H - OWB - PWP0						Out of range
HENNIN FED #12H - OWB - AWP	28,916.2	16,859.0	1,720.7	1,509.6	8.154	CC
HENNIN FED #12H - OWB - AWP	29,100.0	17,026.5	1,721.5	1,507.7	8.054	ES
HENNIN FED #12H - OWB - AWP	29,300.0	17,180.2	1,726.5	1,510.0	7.976	SF
HENNIN FED #24H - OWB - AWP	28,072.7	16,246.6	1,976.3	1,772.2	9.686	CC
HENNIN FED #24H - OWB - AWP	28,100.0	16,257.5	1,976.4	1,772.0	9.670	ES
HENNIN FED #24H - OWB - AWP	29,300.0	17,431.0	1,996.0	1,773.7	8.976	SF
JAZZBASS 34 FEDERAL 003H - OWB - AWP	22,776.2	12,661.0	1,920.5	1,794.6	15.254	CC
JAZZBASS 34 FEDERAL 003H - OWB - AWP	22,800.0	12,642.0	1,920.6	1,794.5	15.227	ES
JAZZBASS 34 FEDERAL 003H - OWB - AWP	23,100.0	12,528.1	1,936.9	1,808.3	15.059	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
HENNIN PROJECT						
JAVELINA FEDERAL #1 (P&A) - OWB - AWP	29,398.9	13,045.5	1,968.8	1,407.8	3.509	
*HENNIN FED COM #601H - OWB - PWP0	29,398.9	28,746.7				Out of Range @TD
*HENNIN FED COM #602H - OWB - PWP0	29,398.9	28,702.6				Out of Range @TD
*HENNIN FED COM #701H - OWB - PWP0	29,398.9	28,960.9				Out of Range @TD
*HENNIN FED COM #702H - OWB - PWP0	29,398.9	23,481.2				Out of Range @TD
*HENNIN FED COM #703H - OWB - PWP0	29,398.9	28,468.9	1,096.6	840.0	4.273	
*HENNIN FED COM #801H - OWB - PWP0	29,398.9	29,458.3				Out of Range @TD
HENNIN FED #12H - OWB - AWP	29,398.9	17,199.0	1,732.0	1,515.0	7.981	
HENNIN FED #24H - OWB - AWP	29,398.9	17,431.0				Out of Range @TD
JAZZBASS 34 FEDERAL 003H - OWB - AWP	29,398.9	11,730.0				Out of Range @TD

Offset Design: HENNIN PROJECT - JAVELINA FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 500-INC-ONLY													Offset Well Error: 50.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
25,500.0	13,100.0	13,045.5	13,100.0	123.2	397.8	90.00	-14,172.6	957.0	1,984.2	1,425.5	558.70	3.551	
25,600.0	13,100.0	13,045.5	13,100.0	124.1	397.8	90.00	-14,172.6	957.0	1,885.6	1,326.8	558.82	3.374	
25,700.0	13,100.0	13,045.5	13,100.0	125.0	397.8	90.00	-14,172.6	957.0	1,787.2	1,228.2	558.96	3.197	
25,800.0	13,100.0	13,045.5	13,100.0	126.0	397.8	90.00	-14,172.6	957.0	1,689.0	1,129.8	559.12	3.021	
25,900.0	13,100.0	13,045.5	13,100.0	126.9	397.8	90.00	-14,172.6	957.0	1,591.0	1,031.6	559.31	2.845	
26,000.0	13,100.0	13,045.5	13,100.0	127.8	397.8	90.00	-14,172.6	957.0	1,493.2	933.7	559.53	2.669	
26,100.0	13,100.0	13,045.5	13,100.0	128.8	397.8	90.00	-14,172.6	957.0	1,395.8	836.0	559.79	2.493	
26,200.0	13,100.0	13,045.5	13,100.0	129.7	397.8	90.00	-14,172.6	957.0	1,298.8	738.7	560.10	2.319	
26,300.0	13,100.0	13,045.5	13,100.0	130.6	397.8	90.00	-14,172.6	957.0	1,202.2	641.7	560.48	2.145	
26,400.0	13,100.0	13,045.5	13,100.0	131.6	397.8	90.00	-14,172.6	957.0	1,106.3	545.3	560.95	1.972	Advise and Monitor
26,500.0	13,100.0	13,045.5	13,100.0	132.5	397.8	90.00	-14,172.6	957.0	1,011.2	449.6	561.55	1.801	Advise and Monitor
26,600.0	13,100.0	13,045.5	13,100.0	133.4	397.8	90.00	-14,172.6	957.0	917.1	354.7	562.32	1.631	Advise and Monitor
26,700.0	13,100.0	13,045.5	13,100.0	134.4	397.8	90.00	-14,172.6	957.0	824.3	261.0	563.33	1.463	Shut in Producers
26,800.0	13,100.0	13,045.5	13,100.0	135.3	397.8	90.00	-14,172.6	957.0	733.6	168.8	564.70	1.299	Shut in Producers
26,900.0	13,100.0	13,045.5	13,100.0	136.2	397.8	90.00	-14,172.6	957.0	645.5	78.9	566.60	1.139	Shut in Producers
27,000.0	13,100.0	13,045.5	13,100.0	137.2	397.8	90.00	-14,172.6	957.0	561.4	-7.8	569.26	0.986	Stop Drilling Now
27,100.0	13,100.0	13,045.5	13,100.0	138.1	397.8	90.00	-14,172.6	957.0	483.5	-89.5	573.00	0.844	Stop Drilling Now
27,200.0	13,100.0	13,045.5	13,100.0	139.0	397.8	90.00	-14,172.6	957.0	415.1	-163.0	578.08	0.718	Stop Drilling Now
27,300.0	13,100.0	13,045.5	13,100.0	140.0	397.8	90.00	-14,172.6	957.0	361.7	-222.3	584.05	0.619	Stop Drilling Now
27,400.0	13,100.0	13,045.5	13,100.0	140.9	397.8	90.00	-14,172.6	957.0	330.8	-258.0	588.73	0.562	Stop Drilling Now

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - JAVELINA FEDERAL #1 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	50.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
27,457.3	13,100.0	13,045.5	13,100.0	141.5	397.8	90.00	-14,172.6	957.0	325.8	-263.7	589.50	0.553	Stop Drilling Now, CC, ES, SF
27,500.0	13,100.0	13,045.5	13,100.0	141.9	397.8	90.00	-14,172.6	957.0	328.6	-260.3	588.86	0.558	Stop Drilling Now
27,600.0	13,100.0	13,045.5	13,100.0	142.8	397.8	90.00	-14,172.6	957.0	355.7	-228.6	584.23	0.609	Stop Drilling Now
27,700.0	13,100.0	13,045.5	13,100.0	143.7	397.8	90.00	-14,172.6	957.0	406.3	-171.8	578.08	0.703	Stop Drilling Now
27,800.0	13,100.0	13,045.5	13,100.0	144.7	397.8	90.00	-14,172.6	957.0	472.9	-100.0	572.82	0.826	Stop Drilling Now
27,900.0	13,100.0	13,045.5	13,100.0	145.6	397.8	90.00	-14,172.6	957.0	549.7	-19.3	568.98	0.966	Stop Drilling Now
28,000.0	13,100.0	13,045.5	13,100.0	146.6	397.8	90.00	-14,172.6	957.0	633.0	66.7	566.31	1.118	Shut in Producers
28,100.0	13,100.0	13,045.5	13,100.0	147.5	397.8	90.00	-14,172.6	957.0	720.6	156.1	564.45	1.277	Shut in Producers
28,200.0	13,100.0	13,045.5	13,100.0	148.4	397.8	90.00	-14,172.6	957.0	811.1	247.9	563.14	1.440	Shut in Producers
28,300.0	13,100.0	13,045.5	13,100.0	149.4	397.8	90.00	-14,172.6	957.0	903.5	341.3	562.20	1.607	Advise and Monitor
28,400.0	13,100.0	13,045.5	13,100.0	150.3	397.8	90.00	-14,172.6	957.0	997.4	435.9	561.51	1.776	Advise and Monitor
28,500.0	13,100.0	13,045.5	13,100.0	151.3	397.8	90.00	-14,172.6	957.0	1,092.5	531.5	560.99	1.947	Advise and Monitor
28,600.0	13,100.0	13,045.5	13,100.0	152.2	397.8	90.00	-14,172.6	957.0	1,188.3	627.7	560.60	2.120	
28,700.0	13,100.0	13,045.5	13,100.0	153.1	397.8	90.00	-14,172.6	957.0	1,284.7	724.4	560.30	2.293	
28,800.0	13,100.0	13,045.5	13,100.0	154.1	397.8	90.00	-14,172.6	957.0	1,381.7	821.6	560.06	2.467	
28,900.0	13,100.0	13,045.5	13,100.0	155.0	397.8	90.00	-14,172.6	957.0	1,479.1	919.2	559.88	2.642	
29,000.0	13,100.0	13,045.5	13,100.0	156.0	397.8	90.00	-14,172.6	957.0	1,576.8	1,017.0	559.73	2.817	
29,100.0	13,100.0	13,045.5	13,100.0	156.9	397.8	90.00	-14,172.6	957.0	1,674.7	1,115.1	559.62	2.993	
29,200.0	13,100.0	13,045.5	13,100.0	157.9	397.8	90.00	-14,172.6	957.0	1,772.9	1,213.4	559.53	3.169	
29,300.0	13,100.0	13,045.5	13,100.0	158.8	397.8	90.00	-14,172.6	957.0	1,871.3	1,311.9	559.46	3.345	
29,398.9	13,100.0	13,045.5	13,100.0	159.7	397.8	90.00	-14,172.6	957.0	1,968.8	1,407.8	561.03	3.509	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-90.00	0.0	-60.0	60.0	53.6	6.43	9.333	
100.0	100.0	100.0	100.0	3.2	3.2	-90.00	0.0	-60.0	60.0	53.1	6.89	8.705	
200.0	200.0	200.0	200.0	3.5	3.5	-90.00	0.0	-60.0	60.0	52.7	7.33	8.188	
300.0	300.0	300.0	300.0	3.7	3.7	-90.00	0.0	-60.0	60.0	52.3	7.74	7.751	
400.0	400.0	400.0	400.0	3.9	3.9	-90.00	0.0	-60.0	60.0	51.9	8.14	7.375	
500.0	500.0	500.0	500.0	4.1	4.1	-90.00	0.0	-60.0	60.0	51.5	8.51	7.048	
600.0	600.0	600.0	600.0	4.2	4.2	-90.00	0.0	-60.0	60.0	51.1	8.88	6.759	
700.0	700.0	700.0	700.0	4.4	4.4	-90.00	0.0	-60.0	60.0	50.8	9.23	6.501	
800.0	800.0	800.0	800.0	4.6	4.6	-90.00	0.0	-60.0	60.0	50.4	9.57	6.269	
900.0	900.0	900.0	900.0	4.8	4.8	-90.00	0.0	-60.0	60.0	50.1	9.90	6.059	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.00	0.0	-60.0	60.0	49.8	10.22	5.868	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-90.00	0.0	-60.0	60.0	49.5	10.54	5.693	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-90.00	0.0	-60.0	60.0	49.2	10.85	5.531	CC, ES, SF
1,300.0	1,300.0	1,298.5	1,298.5	5.4	5.4	-164.94	0.4	-61.2	62.5	51.3	11.20	5.578	
1,400.0	1,399.9	1,396.6	1,396.5	5.6	5.6	-164.79	1.5	-64.8	70.0	58.4	11.56	6.051	
1,500.0	1,499.7	1,493.9	1,493.6	5.8	5.8	-164.60	3.4	-70.8	82.4	70.4	11.94	6.898	
1,600.0	1,599.3	1,590.2	1,589.6	6.1	6.0	-164.39	6.1	-79.0	99.7	87.3	12.35	8.072	
1,700.0	1,698.6	1,685.1	1,683.8	6.3	6.3	-164.20	9.4	-89.3	121.8	109.0	12.78	9.530	
1,800.0	1,797.5	1,780.0	1,777.8	6.6	6.4	-164.05	13.3	-101.6	148.3	135.2	13.18	11.251	
1,900.0	1,896.1	1,875.6	1,872.5	6.9	6.7	-164.11	17.3	-114.3	177.6	164.0	13.68	12.985	
2,000.0	1,994.2	1,970.4	1,966.4	7.2	6.9	-164.32	21.3	-126.8	209.3	195.1	14.22	14.725	
2,100.0	2,091.7	2,064.5	2,059.5	7.4	7.2	-164.63	25.3	-139.3	243.3	228.6	14.72	16.530	
2,200.0	2,189.2	2,158.3	2,152.5	7.8	7.5	-164.98	29.3	-151.8	277.8	262.5	15.28	18.177	
2,300.0	2,286.6	2,252.2	2,245.4	8.1	7.8	-165.25	33.3	-164.2	312.2	296.4	15.87	19.676	
2,400.0	2,384.0	2,346.0	2,338.4	8.5	8.1	-165.46	37.2	-176.6	346.7	330.3	16.48	21.041	
2,500.0	2,481.5	2,439.9	2,431.3	8.8	8.4	-165.64	41.2	-189.1	381.2	364.1	17.11	22.284	
2,600.0	2,578.9	2,533.8	2,524.2	9.2	8.7	-165.79	45.2	-201.5	415.7	398.0	17.76	23.415	
2,700.0	2,676.4	2,627.6	2,617.2	9.6	9.0	-165.91	49.1	-214.0	450.3	431.8	18.42	24.446	
2,800.0	2,773.8	2,721.5	2,710.1	10.0	9.4	-166.02	53.1	-226.4	484.8	465.7	19.09	25.388	
2,900.0	2,871.2	2,815.3	2,803.1	10.4	9.7	-166.11	57.1	-238.9	519.3	499.5	19.78	26.248	
3,000.0	2,968.7	2,909.2	2,896.0	10.8	10.1	-166.20	61.1	-251.3	553.8	533.3	20.48	27.036	
3,100.0	3,066.1	3,003.0	2,988.9	11.2	10.4	-166.27	65.0	-263.8	588.3	567.1	21.19	27.759	
3,200.0	3,163.5	3,096.9	3,081.9	11.6	10.8	-166.33	69.0	-276.2	622.8	600.9	21.91	28.424	
3,300.0	3,261.0	3,190.7	3,174.8	12.1	11.1	-166.39	73.0	-288.6	657.3	634.7	22.64	29.035	
3,400.0	3,358.4	3,284.6	3,267.8	12.5	11.5	-166.44	76.9	-301.1	691.8	668.4	23.37	29.599	
3,500.0	3,455.8	3,378.4	3,360.7	12.9	11.8	-166.49	80.9	-313.5	726.3	702.2	24.11	30.121	
3,600.0	3,553.3	3,472.3	3,453.6	13.4	12.2	-166.53	84.9	-326.0	760.8	736.0	24.86	30.604	
3,700.0	3,650.7	3,566.2	3,546.6	13.8	12.6	-166.57	88.9	-338.4	795.4	769.7	25.61	31.052	
3,800.0	3,748.2	3,660.0	3,639.5	14.2	12.9	-166.60	92.8	-350.9	829.9	803.5	26.37	31.468	
3,900.0	3,845.6	3,753.9	3,732.5	14.7	13.3	-166.63	96.8	-363.3	864.4	837.3	27.13	31.856	
4,000.0	3,943.0	3,847.7	3,825.4	15.1	13.7	-166.66	100.8	-375.7	898.9	871.0	27.90	32.218	
4,100.0	4,040.5	3,941.6	3,918.3	15.6	14.1	-166.69	104.7	-388.2	933.4	904.7	28.67	32.555	
4,200.0	4,137.9	4,035.4	4,011.3	16.0	14.4	-166.72	108.7	-400.6	967.9	938.5	29.45	32.871	
4,300.0	4,235.3	4,129.3	4,104.2	16.5	14.8	-166.74	112.7	-413.1	1,002.4	972.2	30.22	33.168	
4,400.0	4,332.8	4,223.1	4,197.2	17.0	15.2	-166.77	116.7	-425.5	1,037.0	1,006.0	31.00	33.446	
4,500.0	4,430.2	4,317.0	4,290.1	17.4	15.6	-166.79	120.6	-438.0	1,071.5	1,039.7	31.79	33.707	
4,600.0	4,527.7	4,410.8	4,383.1	17.9	16.0	-166.81	124.6	-450.4	1,106.0	1,073.4	32.57	33.953	
4,700.0	4,625.1	4,504.7	4,476.0	18.3	16.3	-166.82	128.6	-462.9	1,140.5	1,107.1	33.36	34.184	
4,800.0	4,722.5	4,598.5	4,568.9	18.8	16.7	-166.84	132.5	-475.3	1,175.0	1,140.9	34.15	34.403	
4,900.0	4,820.0	4,692.4	4,661.9	19.3	17.1	-166.86	136.5	-487.7	1,209.5	1,174.6	34.95	34.610	
5,000.0	4,917.4	4,786.3	4,754.8	19.7	17.5	-166.87	140.5	-500.2	1,244.0	1,208.3	35.74	34.805	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,014.8	4,880.1	4,847.8	20.2	17.9	-166.89	144.5	-512.6	1,278.6	1,242.0	36.54	34.990		
5,200.0	5,112.3	4,974.0	4,940.7	20.6	18.3	-166.90	148.4	-525.1	1,313.1	1,275.7	37.34	35.166		
5,300.0	5,209.7	5,067.8	5,033.6	21.1	18.7	-166.92	152.4	-537.5	1,347.6	1,309.4	38.14	35.332		
5,400.0	5,307.1	5,161.7	5,126.6	21.6	19.1	-166.93	156.4	-550.0	1,382.1	1,343.2	38.94	35.491		
5,500.0	5,404.6	5,255.5	5,219.5	22.0	19.5	-166.94	160.3	-562.4	1,416.6	1,376.9	39.75	35.641		
5,600.0	5,502.0	5,349.4	5,312.5	22.5	19.9	-166.95	164.3	-574.8	1,451.1	1,410.6	40.55	35.785		
5,700.0	5,599.5	5,443.2	5,405.4	23.0	20.2	-166.96	168.3	-587.3	1,485.7	1,444.3	41.36	35.921		
5,800.0	5,696.9	5,537.1	5,498.3	23.5	20.6	-166.97	172.3	-599.7	1,520.2	1,478.0	42.17	36.051		
5,900.0	5,794.3	5,630.9	5,591.3	23.9	21.0	-166.98	176.2	-612.2	1,554.7	1,511.7	42.98	36.176		
6,000.0	5,891.8	5,724.8	5,684.2	24.4	21.4	-166.99	180.2	-624.6	1,589.2	1,545.4	43.78	36.297		
6,100.0	5,989.2	5,835.9	5,794.3	24.9	21.9	-167.01	184.8	-639.0	1,623.5	1,578.7	44.72	36.304		
6,200.0	6,086.6	5,965.2	5,922.7	25.3	22.4	-167.06	189.4	-653.4	1,656.0	1,610.2	45.79	36.167		
6,300.0	6,184.1	6,096.3	6,053.3	25.8	22.9	-167.17	193.1	-665.1	1,686.3	1,639.5	46.82	36.020		
6,400.0	6,281.9	6,229.7	6,186.3	26.3	23.4	-167.33	196.0	-674.2	1,713.2	1,665.4	47.82	35.826		
6,500.0	6,380.1	6,365.2	6,321.6	26.7	23.8	-167.50	198.0	-680.3	1,736.3	1,687.5	48.77	35.599		
6,600.0	6,478.5	6,502.5	6,458.9	27.2	24.2	-167.67	199.0	-683.5	1,755.5	1,705.9	49.65	35.356		
6,700.0	6,577.3	6,620.9	6,577.3	27.6	24.3	-167.83	199.1	-683.9	1,771.2	1,721.0	50.23	35.261		
6,800.0	6,676.3	6,719.9	6,676.3	28.0	24.4	-167.96	199.1	-683.9	1,784.9	1,734.2	50.71	35.197		
6,900.0	6,775.5	6,819.2	6,775.5	28.4	24.4	-168.06	199.1	-683.9	1,796.9	1,745.7	51.18	35.108		
7,000.0	6,875.0	6,918.6	6,875.0	28.9	24.4	-168.15	199.1	-683.9	1,807.2	1,755.6	51.64	34.996		
7,100.0	6,974.6	7,018.2	6,974.6	29.2	24.5	-168.23	199.1	-683.9	1,815.8	1,763.7	52.08	34.863		
7,200.0	7,074.3	7,118.0	7,074.3	29.6	24.5	-168.29	199.1	-683.9	1,822.7	1,770.2	52.51	34.712		
7,300.0	7,174.2	7,217.8	7,174.2	29.9	24.6	-168.33	199.1	-683.9	1,827.9	1,775.0	52.91	34.547		
7,400.0	7,274.1	7,317.8	7,274.1	30.3	24.6	-168.36	199.1	-683.9	1,831.4	1,778.1	53.28	34.371		
7,500.0	7,374.1	7,417.7	7,374.1	30.5	24.6	-168.38	199.1	-683.9	1,833.2	1,779.6	53.61	34.199		
7,600.0	7,474.1	7,517.7	7,474.1	30.6	24.7	-93.38	199.1	-683.9	1,833.5	1,779.8	53.72	34.131		
7,700.0	7,574.1	7,617.7	7,574.1	30.6	24.7	-93.38	199.1	-683.9	1,833.5	1,779.7	53.79	34.087		
7,800.0	7,674.1	7,717.7	7,674.1	30.7	24.8	-93.38	199.1	-683.9	1,833.5	1,779.6	53.86	34.043		
7,900.0	7,774.1	7,817.7	7,774.1	30.7	24.8	-93.38	199.1	-683.9	1,833.5	1,779.5	53.93	33.998		
8,000.0	7,874.1	7,917.7	7,874.1	30.7	24.8	-93.38	199.1	-683.9	1,833.5	1,779.5	54.00	33.954		
8,100.0	7,974.1	8,017.7	7,974.1	30.8	24.9	-93.38	199.1	-683.9	1,833.5	1,779.4	54.07	33.909		
8,200.0	8,074.1	8,117.7	8,074.1	30.8	24.9	-93.38	199.1	-683.9	1,833.5	1,779.3	54.14	33.865		
8,300.0	8,174.1	8,217.7	8,174.1	30.8	25.0	-93.38	199.1	-683.9	1,833.5	1,779.3	54.21	33.820		
8,400.0	8,274.1	8,317.7	8,274.1	30.8	25.0	-93.38	199.1	-683.9	1,833.5	1,779.2	54.29	33.775		
8,500.0	8,374.1	8,417.7	8,374.1	30.9	25.1	-93.38	199.1	-683.9	1,833.5	1,779.1	54.36	33.730		
8,600.0	8,474.1	8,517.7	8,474.1	30.9	25.1	-93.38	199.1	-683.9	1,833.5	1,779.0	54.43	33.685		
8,700.0	8,574.1	8,617.7	8,574.1	30.9	25.1	-93.38	199.1	-683.9	1,833.5	1,779.0	54.50	33.639		
8,800.0	8,674.1	8,717.7	8,674.1	31.0	25.2	-93.38	199.1	-683.9	1,833.5	1,778.9	54.58	33.594		
8,900.0	8,774.1	8,817.7	8,774.1	31.0	25.2	-93.38	199.1	-683.9	1,833.5	1,778.8	54.65	33.549		
9,000.0	8,874.1	8,917.7	8,874.1	31.0	25.3	-93.38	199.1	-683.9	1,833.5	1,778.8	54.73	33.503		
9,100.0	8,974.1	9,017.7	8,974.1	31.1	25.3	-93.38	199.1	-683.9	1,833.5	1,778.7	54.80	33.457		
9,200.0	9,074.1	9,117.7	9,074.1	31.1	25.3	-93.38	199.1	-683.9	1,833.5	1,778.6	54.88	33.412		
9,300.0	9,174.1	9,217.7	9,174.1	31.1	25.4	-93.38	199.1	-683.9	1,833.5	1,778.5	54.95	33.366		
9,400.0	9,274.1	9,317.7	9,274.1	31.2	25.4	-93.38	199.1	-683.9	1,833.5	1,778.5	55.03	33.320		
9,500.0	9,374.1	9,417.7	9,374.1	31.2	25.5	-93.38	199.1	-683.9	1,833.5	1,778.4	55.10	33.273		
9,600.0	9,474.1	9,517.7	9,474.1	31.2	25.5	-93.38	199.1	-683.9	1,833.5	1,778.3	55.18	33.227		
9,700.0	9,574.1	9,617.7	9,574.1	31.3	25.6	-93.38	199.1	-683.9	1,833.5	1,778.2	55.26	33.181		
9,800.0	9,674.1	9,717.7	9,674.1	31.3	25.6	-93.38	199.1	-683.9	1,833.5	1,778.1	55.33	33.135		
9,900.0	9,774.1	9,817.7	9,774.1	31.3	25.7	-93.38	199.1	-683.9	1,833.5	1,778.1	55.41	33.088		
10,000.0	9,874.1	9,917.7	9,874.1	31.4	25.7	-93.38	199.1	-683.9	1,833.5	1,778.0	55.49	33.042		
10,100.0	9,974.1	10,017.7	9,974.1	31.4	25.7	-93.38	199.1	-683.9	1,833.5	1,777.9	55.57	32.995		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
10,200.0	10,074.1	10,117.7	10,074.1	31.4	25.8	-93.38	199.1	-683.9	1,833.5	1,777.8	55.65	32.948	
10,300.0	10,174.1	10,217.7	10,174.1	31.5	25.8	-93.38	199.1	-683.9	1,833.5	1,777.8	55.73	32.901	
10,400.0	10,274.1	10,317.7	10,274.1	31.5	25.9	-93.38	199.1	-683.9	1,833.5	1,777.7	55.81	32.855	
10,500.0	10,374.1	10,417.7	10,374.1	31.6	25.9	-93.38	199.1	-683.9	1,833.5	1,777.6	55.89	32.808	
10,600.0	10,474.1	10,517.7	10,474.1	31.6	26.0	-93.38	199.1	-683.9	1,833.5	1,777.5	55.97	32.761	
10,700.0	10,574.1	10,617.7	10,574.1	31.6	26.0	-93.38	199.1	-683.9	1,833.5	1,777.4	56.05	32.714	
10,800.0	10,674.1	10,717.7	10,674.1	31.7	26.1	-93.38	199.1	-683.9	1,833.5	1,777.4	56.13	32.666	
10,900.0	10,774.1	10,817.7	10,774.1	31.7	26.1	-93.38	199.1	-683.9	1,833.5	1,777.3	56.21	32.619	
11,000.0	10,874.1	10,917.7	10,874.1	31.7	26.1	-93.38	199.1	-683.9	1,833.5	1,777.2	56.29	32.572	
11,100.0	10,974.1	11,017.7	10,974.1	31.8	26.2	-93.38	199.1	-683.9	1,833.5	1,777.1	56.37	32.525	
11,200.0	11,074.1	11,117.7	11,074.1	31.8	26.2	-93.38	199.1	-683.9	1,833.5	1,777.0	56.45	32.477	
11,300.0	11,174.1	11,217.7	11,174.1	31.8	26.3	-93.38	199.1	-683.9	1,833.5	1,776.9	56.54	32.430	
11,400.0	11,274.1	11,317.7	11,274.1	31.9	26.3	-93.38	199.1	-683.9	1,833.5	1,776.9	56.62	32.382	
11,500.0	11,374.1	11,417.7	11,374.1	31.9	26.4	-93.38	199.1	-683.9	1,833.5	1,776.8	56.70	32.335	
11,600.0	11,474.1	11,517.7	11,474.1	32.0	26.4	-93.38	199.1	-683.9	1,833.5	1,776.7	56.79	32.287	
11,700.0	11,574.1	11,617.7	11,574.1	32.0	26.5	-93.38	199.1	-683.9	1,833.5	1,776.6	56.87	32.239	
11,800.0	11,674.1	11,717.7	11,674.1	32.0	26.5	-93.38	199.1	-683.9	1,833.5	1,776.5	56.96	32.192	
11,900.0	11,774.1	11,817.7	11,774.1	32.1	26.6	-93.38	199.1	-683.9	1,833.5	1,776.4	57.04	32.144	
12,000.0	11,874.1	11,917.7	11,874.1	32.1	26.6	-93.38	199.1	-683.9	1,833.5	1,776.4	57.12	32.096	
12,100.0	11,974.1	12,017.7	11,974.1	32.1	26.7	-93.38	199.1	-683.9	1,833.5	1,776.3	57.21	32.048	
12,200.0	12,074.1	12,117.7	12,074.1	32.2	26.7	-93.38	199.1	-683.9	1,833.5	1,776.2	57.29	32.001	
12,210.0	12,084.1	12,127.7	12,084.1	32.2	26.7	-93.38	199.1	-683.9	1,833.5	1,776.2	57.30	31.997	
12,300.0	12,174.1	12,209.4	12,165.7	32.2	26.7	-93.44	197.2	-683.8	1,833.6	1,776.3	57.34	31.979	
12,400.0	12,274.1	12,290.6	12,245.6	32.3	26.6	-93.88	183.0	-683.7	1,834.6	1,777.2	57.34	31.995	
12,500.0	12,374.1	12,365.1	12,315.8	32.3	26.5	-94.65	158.2	-683.5	1,836.9	1,779.6	57.32	32.044	
12,600.0	12,474.1	12,430.7	12,373.7	32.3	26.4	-95.60	127.7	-683.2	1,841.1	1,783.9	57.29	32.138	
12,700.0	12,574.1	12,487.5	12,420.2	32.3	26.3	83.61	95.0	-682.9	1,847.8	1,790.6	57.21	32.300	
12,800.0	12,672.5	12,541.4	12,460.3	32.2	26.3	81.95	59.1	-682.5	1,855.6	1,798.6	57.06	32.520	
12,900.0	12,766.5	12,593.7	12,495.2	32.1	26.2	80.36	20.1	-682.2	1,863.9	1,807.0	56.91	32.751	
13,000.0	12,853.3	12,650.0	12,527.7	32.0	26.1	78.84	-25.8	-681.7	1,872.2	1,815.4	56.78	32.972	
13,100.0	12,930.1	12,700.0	12,551.9	31.9	26.1	77.57	-69.5	-681.3	1,879.9	1,823.2	56.68	33.169	
13,200.0	12,994.7	12,750.0	12,571.4	31.9	26.1	76.49	-115.5	-680.9	1,886.6	1,830.0	56.61	33.327	
13,300.0	13,045.1	12,800.0	12,585.9	31.8	26.1	75.65	-163.4	-680.4	1,892.0	1,835.5	56.58	33.441	
13,400.0	13,079.7	12,850.0	12,595.4	31.9	26.1	75.07	-212.4	-680.0	1,895.9	1,839.3	56.59	33.504	
13,500.0	13,097.5	12,892.6	12,599.4	32.0	26.1	74.78	-254.8	-679.6	1,897.9	1,841.3	56.62	33.520	
13,600.0	13,100.0	12,967.9	12,600.0	32.1	26.2	74.73	-330.1	-678.9	1,898.2	1,841.5	56.73	33.462	
13,700.0	13,100.0	13,067.9	12,600.0	32.2	26.3	74.73	-430.1	-677.9	1,898.2	1,841.3	56.93	33.345	
13,800.0	13,100.0	13,167.9	12,600.0	32.4	26.4	74.73	-530.1	-677.0	1,898.2	1,841.1	57.18	33.199	
13,900.0	13,100.0	13,267.9	12,600.0	32.7	26.5	74.73	-630.1	-676.0	1,898.2	1,840.8	57.48	33.026	
14,000.0	13,100.0	13,367.9	12,600.0	32.9	26.7	74.73	-730.1	-675.1	1,898.2	1,840.4	57.83	32.827	
14,100.0	13,100.0	13,467.9	12,600.0	33.2	26.9	74.73	-830.1	-674.2	1,898.2	1,840.0	58.22	32.603	
14,200.0	13,100.0	13,567.9	12,600.0	33.5	27.1	74.73	-930.1	-673.2	1,898.2	1,839.6	58.67	32.356	
14,300.0	13,100.0	13,667.9	12,600.0	33.8	27.3	74.73	-1,030.1	-672.3	1,898.2	1,839.1	59.16	32.088	
14,400.0	13,100.0	13,767.9	12,600.0	34.1	27.5	74.73	-1,130.1	-671.3	1,898.2	1,838.5	59.69	31.800	
14,500.0	13,100.0	13,867.9	12,600.0	34.5	27.8	74.73	-1,230.1	-670.4	1,898.2	1,838.0	60.27	31.494	
14,600.0	13,100.0	13,967.9	12,600.0	34.9	28.0	74.73	-1,330.1	-669.4	1,898.2	1,837.3	60.89	31.173	
14,700.0	13,100.0	14,067.9	12,600.0	35.3	28.3	74.73	-1,430.1	-668.5	1,898.2	1,836.7	61.56	30.837	
14,800.0	13,100.0	14,167.9	12,600.0	35.7	28.6	74.73	-1,530.1	-667.6	1,898.2	1,836.0	62.26	30.489	
14,900.0	13,100.0	14,267.9	12,600.0	36.1	28.9	74.73	-1,630.1	-666.6	1,898.2	1,835.2	63.00	30.131	
15,000.0	13,100.0	14,367.9	12,600.0	36.6	29.3	74.73	-1,730.1	-665.7	1,898.2	1,834.4	63.78	29.763	
15,100.0	13,100.0	14,467.9	12,600.0	37.1	29.6	74.73	-1,830.1	-664.7	1,898.2	1,833.6	64.59	29.388	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #702H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,200.0	13,100.0	14,567.9	12,600.0	37.6	30.0	74.73	-1,930.1	-663.8	1,898.2	1,832.8	65.44	29.007	
15,300.0	13,100.0	14,667.9	12,600.0	38.1	30.4	74.73	-2,030.1	-662.8	1,898.2	1,831.9	66.32	28.621	
15,400.0	13,100.0	14,767.9	12,600.0	38.7	30.7	74.73	-2,130.1	-661.9	1,898.2	1,831.0	67.24	28.232	
15,500.0	13,100.0	14,867.9	12,600.0	39.2	31.2	74.73	-2,230.1	-660.9	1,898.2	1,830.0	68.18	27.841	
15,600.0	13,100.0	14,967.9	12,600.0	39.8	31.6	74.73	-2,330.1	-660.0	1,898.2	1,829.1	69.15	27.450	
15,700.0	13,100.0	15,067.9	12,600.0	40.4	32.0	74.73	-2,430.1	-659.1	1,898.2	1,828.1	70.15	27.058	
15,800.0	13,100.0	15,167.9	12,600.0	41.0	32.4	74.73	-2,530.0	-658.1	1,898.2	1,827.0	71.18	26.667	
15,900.0	13,100.0	15,267.9	12,600.0	41.6	32.9	74.73	-2,630.0	-657.2	1,898.2	1,826.0	72.24	26.278	
16,000.0	13,100.0	15,367.9	12,600.0	42.2	33.4	74.73	-2,730.0	-656.2	1,898.2	1,824.9	73.31	25.891	
16,100.0	13,100.0	15,467.9	12,600.0	42.8	33.8	74.73	-2,830.0	-655.3	1,898.2	1,823.8	74.42	25.508	
16,200.0	13,100.0	15,567.9	12,600.0	43.5	34.3	74.73	-2,930.0	-654.3	1,898.2	1,822.7	75.54	25.128	
16,300.0	13,100.0	15,667.9	12,600.0	44.1	34.8	74.73	-3,030.0	-653.4	1,898.2	1,821.5	76.69	24.753	
16,400.0	13,100.0	15,767.9	12,600.0	44.8	35.3	74.73	-3,130.0	-652.5	1,898.2	1,820.3	77.85	24.382	
16,500.0	13,100.0	15,867.9	12,600.0	45.5	35.8	74.73	-3,230.0	-651.5	1,898.2	1,819.2	79.04	24.016	
16,600.0	13,100.0	15,967.9	12,600.0	46.2	36.3	74.73	-3,330.0	-650.6	1,898.2	1,818.0	80.24	23.655	
16,700.0	13,100.0	16,067.9	12,600.0	46.9	36.9	74.73	-3,430.0	-649.6	1,898.2	1,816.7	81.47	23.300	
16,800.0	13,100.0	16,167.9	12,600.0	47.6	37.4	74.73	-3,530.0	-648.7	1,898.2	1,815.5	82.71	22.951	
16,900.0	13,100.0	16,267.9	12,600.0	48.3	38.0	74.73	-3,630.0	-647.7	1,898.2	1,814.2	83.96	22.608	
17,000.0	13,100.0	16,367.9	12,600.0	49.0	38.5	74.73	-3,730.0	-646.8	1,898.2	1,813.0	85.23	22.270	
17,100.0	13,100.0	16,467.9	12,600.0	49.7	39.1	74.73	-3,830.0	-645.9	1,898.2	1,811.7	86.52	21.939	
17,200.0	13,100.0	16,567.9	12,600.0	50.5	39.6	74.73	-3,930.0	-644.9	1,898.2	1,810.4	87.82	21.614	
17,300.0	13,100.0	16,667.9	12,600.0	51.2	40.2	74.73	-4,030.0	-644.0	1,898.2	1,809.0	89.14	21.295	
17,400.0	13,100.0	16,767.9	12,600.0	52.0	40.8	74.73	-4,130.0	-643.0	1,898.2	1,807.7	90.46	20.983	
17,500.0	13,100.0	16,867.9	12,600.0	52.7	41.4	74.73	-4,230.0	-642.1	1,898.2	1,806.4	91.80	20.677	
17,600.0	13,100.0	16,967.9	12,600.0	53.5	42.0	74.73	-4,330.0	-641.1	1,898.2	1,805.0	93.16	20.377	
17,700.0	13,100.0	17,067.9	12,600.0	54.3	42.6	74.73	-4,430.0	-640.2	1,898.2	1,803.7	94.52	20.083	
17,800.0	13,100.0	17,167.9	12,600.0	55.1	43.2	74.73	-4,530.0	-639.2	1,898.2	1,802.3	95.89	19.795	
17,900.0	13,100.0	17,267.9	12,600.0	55.8	43.8	74.73	-4,630.0	-638.3	1,898.2	1,800.9	97.28	19.513	
18,000.0	13,100.0	17,367.9	12,600.0	56.6	44.4	74.73	-4,729.9	-637.4	1,898.2	1,799.5	98.67	19.237	
18,100.0	13,100.0	17,467.9	12,600.0	57.4	45.0	74.73	-4,829.9	-636.4	1,898.2	1,798.1	100.08	18.967	
18,200.0	13,100.0	17,567.9	12,600.0	58.2	45.6	74.73	-4,929.9	-635.5	1,898.2	1,796.7	101.49	18.703	
18,300.0	13,100.0	17,667.9	12,600.0	59.0	46.2	74.73	-5,029.9	-634.5	1,898.2	1,795.3	102.91	18.445	
18,400.0	13,100.0	17,767.9	12,600.0	59.9	46.9	74.73	-5,129.9	-633.6	1,898.2	1,793.8	104.34	18.192	
18,500.0	13,100.0	17,867.9	12,600.0	60.7	47.5	74.73	-5,229.9	-632.6	1,898.2	1,792.4	105.78	17.944	
18,600.0	13,100.0	17,967.9	12,600.0	61.5	48.1	74.73	-5,329.9	-631.7	1,898.2	1,790.9	107.23	17.702	
18,700.0	13,100.0	18,067.9	12,600.0	62.3	48.8	74.73	-5,429.9	-630.8	1,898.2	1,789.5	108.68	17.465	
18,800.0	13,100.0	18,167.9	12,600.0	63.1	49.4	74.73	-5,529.9	-629.8	1,898.2	1,788.0	110.14	17.233	
18,900.0	13,100.0	18,267.9	12,600.0	64.0	50.1	74.73	-5,629.9	-628.9	1,898.2	1,786.5	111.61	17.007	
19,000.0	13,100.0	18,367.9	12,600.0	64.8	50.7	74.73	-5,729.9	-627.9	1,898.2	1,785.1	113.09	16.785	
19,100.0	13,100.0	18,467.9	12,600.0	65.6	51.4	74.73	-5,829.9	-627.0	1,898.2	1,783.6	114.57	16.568	
19,200.0	13,100.0	18,567.9	12,600.0	66.5	52.0	74.73	-5,929.9	-626.0	1,898.1	1,782.1	116.05	16.356	
19,300.0	13,100.0	18,667.9	12,600.0	67.3	52.7	74.73	-6,029.9	-625.1	1,898.1	1,780.6	117.55	16.148	
19,400.0	13,100.0	18,767.9	12,600.0	68.2	53.4	74.73	-6,129.9	-624.1	1,898.1	1,779.1	119.05	15.945	
19,500.0	13,100.0	18,867.9	12,600.0	69.0	54.0	74.73	-6,229.9	-623.2	1,898.1	1,777.6	120.55	15.746	
19,600.0	13,100.0	18,967.9	12,600.0	69.9	54.7	74.73	-6,329.9	-622.3	1,898.1	1,776.1	122.06	15.551	
19,700.0	13,100.0	19,067.9	12,600.0	70.7	55.4	74.73	-6,429.9	-621.3	1,898.1	1,774.6	123.57	15.360	
19,800.0	13,100.0	19,167.9	12,600.0	71.6	56.0	74.73	-6,529.9	-620.4	1,898.1	1,773.0	125.09	15.174	
19,900.0	13,100.0	19,267.9	12,600.0	72.5	56.7	74.73	-6,629.9	-619.4	1,898.1	1,771.5	126.62	14.991	
20,000.0	13,100.0	19,367.9	12,600.0	73.3	57.4	74.73	-6,729.9	-618.5	1,898.1	1,770.0	128.15	14.812	
20,100.0	13,100.0	19,467.9	12,600.0	74.2	58.1	74.73	-6,829.9	-617.5	1,898.1	1,768.5	129.68	14.637	
20,200.0	13,100.0	19,567.9	12,600.0	75.1	58.7	74.73	-6,929.9	-616.6	1,898.1	1,766.9	131.22	14.466	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,300.0	13,100.0	19,667.9	12,600.0	75.9	59.4	74.73	-7,029.8	-615.7	1,898.1	1,765.4	132.76	14.298	
20,400.0	13,100.0	19,767.9	12,600.0	76.8	60.1	74.73	-7,129.8	-614.7	1,898.1	1,763.8	134.30	14.133	
20,500.0	13,100.0	19,867.9	12,600.0	77.7	60.8	74.73	-7,229.8	-613.8	1,898.1	1,762.3	135.85	13.972	
20,600.0	13,100.0	19,967.9	12,600.0	78.6	61.5	74.73	-7,329.8	-612.8	1,898.1	1,760.7	137.40	13.814	
20,700.0	13,100.0	20,067.9	12,600.0	79.4	62.2	74.73	-7,429.8	-611.9	1,898.1	1,759.2	138.96	13.659	
20,800.0	13,100.0	20,167.9	12,600.0	80.3	62.9	74.73	-7,529.8	-610.9	1,898.1	1,757.6	140.52	13.508	
20,900.0	13,100.0	20,267.9	12,600.0	81.2	63.6	74.73	-7,629.8	-610.0	1,898.1	1,756.0	142.08	13.359	
21,000.0	13,100.0	20,367.9	12,600.0	82.1	64.3	74.73	-7,729.8	-609.1	1,898.1	1,754.5	143.65	13.214	
21,100.0	13,100.0	20,467.9	12,600.0	83.0	65.0	74.73	-7,829.8	-608.1	1,898.1	1,752.9	145.22	13.071	
21,200.0	13,100.0	20,567.9	12,600.0	83.9	65.7	74.73	-7,929.8	-607.2	1,898.1	1,751.3	146.79	12.931	
21,300.0	13,100.0	20,667.9	12,600.0	84.8	66.4	74.73	-8,029.8	-606.2	1,898.1	1,749.7	148.37	12.794	
21,400.0	13,100.0	20,767.9	12,600.0	85.7	67.1	74.73	-8,129.8	-605.3	1,898.1	1,748.2	149.94	12.659	
21,500.0	13,100.0	20,867.9	12,600.0	86.6	67.8	74.73	-8,229.8	-604.3	1,898.1	1,746.6	151.52	12.527	
21,600.0	13,100.0	20,967.9	12,600.0	87.4	68.5	74.73	-8,329.8	-603.4	1,898.1	1,745.0	153.11	12.397	
21,700.0	13,100.0	21,067.9	12,600.0	88.3	69.2	74.73	-8,429.8	-602.4	1,898.1	1,743.4	154.69	12.270	
21,800.0	13,100.0	21,167.9	12,600.0	89.2	69.9	74.73	-8,529.8	-601.5	1,898.1	1,741.8	156.28	12.145	
21,900.0	13,100.0	21,267.9	12,600.0	90.1	70.6	74.73	-8,629.8	-600.6	1,898.1	1,740.2	157.87	12.023	
22,000.0	13,100.0	21,367.9	12,600.0	91.0	71.3	74.73	-8,729.8	-599.6	1,898.1	1,738.6	159.46	11.903	
22,100.0	13,100.0	21,467.9	12,600.0	91.9	72.0	74.73	-8,829.8	-598.7	1,898.1	1,737.0	161.06	11.785	
22,200.0	13,100.0	21,567.9	12,600.0	92.8	72.7	74.73	-8,929.8	-597.7	1,898.1	1,735.4	162.66	11.669	
22,300.0	13,100.0	21,667.9	12,600.0	93.8	73.4	74.73	-9,029.8	-596.8	1,898.1	1,733.8	164.26	11.556	
22,400.0	13,100.0	21,767.9	12,600.0	94.7	74.1	74.73	-9,129.8	-595.8	1,898.1	1,732.2	165.86	11.444	
22,500.0	13,100.0	21,867.9	12,600.0	95.6	74.9	74.73	-9,229.7	-594.9	1,898.1	1,730.6	167.46	11.335	
22,600.0	13,100.0	21,967.9	12,600.0	96.5	75.6	74.73	-9,329.7	-594.0	1,898.1	1,729.0	169.07	11.227	
22,700.0	13,100.0	22,067.9	12,600.0	97.4	76.3	74.73	-9,429.7	-593.0	1,898.1	1,727.4	170.67	11.121	
22,800.0	13,100.0	22,167.9	12,600.0	98.3	77.0	74.73	-9,529.7	-592.1	1,898.1	1,725.8	172.28	11.017	
22,900.0	13,100.0	22,267.9	12,600.0	99.2	77.7	74.73	-9,629.7	-591.1	1,898.1	1,724.2	173.89	10.915	
23,000.0	13,100.0	22,367.9	12,600.0	100.1	78.4	74.73	-9,729.7	-590.2	1,898.1	1,722.6	175.51	10.815	
23,100.0	13,100.0	22,467.9	12,600.0	101.0	79.2	74.73	-9,829.7	-589.2	1,898.1	1,721.0	177.12	10.716	
23,200.0	13,100.0	22,567.9	12,600.0	101.9	79.9	74.73	-9,929.7	-588.3	1,898.1	1,719.3	178.74	10.619	
23,300.0	13,100.0	22,667.9	12,600.0	102.9	80.6	74.73	-10,029.7	-587.4	1,898.1	1,717.7	180.36	10.524	
23,400.0	13,100.0	22,767.9	12,600.0	103.8	81.3	74.73	-10,129.7	-586.4	1,898.1	1,716.1	181.97	10.430	
23,500.0	13,100.0	22,867.9	12,600.0	104.7	82.1	74.73	-10,229.7	-585.5	1,898.1	1,714.5	183.60	10.338	
23,600.0	13,100.0	22,967.9	12,600.0	105.6	82.8	74.73	-10,329.7	-584.5	1,898.1	1,712.9	185.22	10.248	
23,700.0	13,100.0	23,067.9	12,600.0	106.5	83.5	74.73	-10,429.7	-583.6	1,898.1	1,711.2	186.84	10.159	
23,800.0	13,100.0	23,167.9	12,600.0	107.4	84.2	74.73	-10,529.7	-582.6	1,898.1	1,709.6	188.47	10.071	
23,900.0	13,100.0	23,267.9	12,600.0	108.4	84.9	74.73	-10,629.7	-581.7	1,898.1	1,708.0	190.09	9.985	
24,000.0	13,100.0	23,367.9	12,600.0	109.3	85.7	74.73	-10,729.7	-580.7	1,898.1	1,706.3	191.72	9.900	
24,100.0	13,100.0	23,467.9	12,600.0	110.2	86.4	74.73	-10,829.7	-579.8	1,898.1	1,704.7	193.35	9.817	
24,113.3	13,100.0	23,481.2	12,600.0	110.3	86.5	74.73	-10,843.0	-579.7	1,898.1	1,704.5	193.57	9.806	
24,200.0	13,100.0	23,481.2	12,600.0	111.1	86.5	74.73	-10,843.0	-579.7	1,900.0	1,705.6	194.39	9.774	
24,300.0	13,100.0	23,481.2	12,600.0	112.1	86.5	74.73	-10,843.0	-579.7	1,907.2	1,712.3	194.89	9.786	
24,400.0	13,100.0	23,481.2	12,600.0	113.0	86.5	74.73	-10,843.0	-579.7	1,919.6	1,724.7	194.91	9.848	
24,500.0	13,100.0	23,481.2	12,600.0	113.9	86.5	74.73	-10,843.0	-579.7	1,937.0	1,742.6	194.48	9.960	
24,600.0	13,100.0	23,481.2	12,600.0	114.8	86.5	74.73	-10,843.0	-579.7	1,959.5	1,765.8	193.62	10.120	
24,700.0	13,100.0	23,481.2	12,600.0	115.7	86.5	74.73	-10,843.0	-579.7	1,986.7	1,794.3	192.37	10.327	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-89.62	0.2	-30.1	30.1	23.7	6.43	4.682		
100.0	100.0	100.0	100.0	3.2	3.2	-89.62	0.2	-30.1	30.1	23.2	6.89	4.367		
200.0	200.0	200.0	200.0	3.5	3.5	-89.62	0.2	-30.1	30.1	22.8	7.33	4.108		
300.0	300.0	300.0	300.0	3.7	3.7	-89.62	0.2	-30.1	30.1	22.4	7.74	3.888		
400.0	400.0	400.0	400.0	3.9	3.9	-89.62	0.2	-30.1	30.1	22.0	8.14	3.700		
500.0	500.0	500.0	500.0	4.1	4.1	-89.62	0.2	-30.1	30.1	21.6	8.51	3.536		
600.0	600.0	600.0	600.0	4.2	4.2	-89.62	0.2	-30.1	30.1	21.2	8.88	3.391		
700.0	700.0	700.0	700.0	4.4	4.4	-89.62	0.2	-30.1	30.1	20.9	9.23	3.261		
800.0	800.0	800.0	800.0	4.6	4.6	-89.62	0.2	-30.1	30.1	20.5	9.57	3.145		
900.0	900.0	900.0	900.0	4.8	4.8	-89.62	0.2	-30.1	30.1	20.2	9.90	3.040		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-89.62	0.2	-30.1	30.1	19.9	10.22	2.944		
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-89.62	0.2	-30.1	30.1	19.6	10.54	2.856		
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-89.62	0.2	-30.1	30.1	19.3	10.85	2.775 CC		
1,300.0	1,300.0	1,300.7	1,300.7	5.4	5.4	-164.01	0.9	-29.0	30.2	19.0	11.20	2.698 ES		
1,400.0	1,399.9	1,401.4	1,401.3	5.6	5.6	-162.21	2.9	-25.5	30.6	19.1	11.55	2.651		
1,500.0	1,499.7	1,502.0	1,501.7	5.8	5.8	-159.32	6.2	-19.8	31.4	19.4	11.92	2.631 SF		
1,600.0	1,599.3	1,602.7	1,601.9	6.1	6.1	-155.52	10.8	-11.7	32.5	20.2	12.29	2.645		
1,700.0	1,698.6	1,703.3	1,701.8	6.3	6.3	-151.02	16.8	-1.4	34.2	21.5	12.66	2.700		
1,800.0	1,797.5	1,803.4	1,801.0	6.6	6.5	-146.91	23.7	10.5	36.9	23.9	12.97	2.845		
1,900.0	1,896.1	1,903.3	1,899.9	6.9	6.8	-145.37	30.6	22.6	41.8	28.4	13.38	3.125		
2,000.0	1,994.2	2,003.0	1,998.6	7.2	7.0	-145.92	37.6	34.6	48.9	35.1	13.86	3.530		
2,100.0	2,091.7	2,102.6	2,097.2	7.4	7.3	-147.69	44.5	46.6	58.1	43.8	14.33	4.053		
2,200.0	2,189.2	2,202.1	2,195.8	7.8	7.6	-149.26	51.4	58.6	67.8	52.9	14.89	4.553		
2,300.0	2,286.6	2,301.6	2,294.3	8.1	8.0	-150.44	58.3	70.6	77.5	62.1	15.47	5.013		
2,400.0	2,384.0	2,401.1	2,392.9	8.5	8.3	-151.35	65.3	82.6	87.3	71.3	16.07	5.434		
2,500.0	2,481.5	2,500.6	2,491.4	8.8	8.6	-152.09	72.2	94.6	97.1	80.4	16.68	5.820		
2,600.0	2,578.9	2,600.1	2,590.0	9.2	9.0	-152.68	79.1	106.6	106.9	89.6	17.32	6.173		
2,700.0	2,676.4	2,699.6	2,688.5	9.6	9.3	-153.18	86.0	118.6	116.7	98.8	17.97	6.497		
2,800.0	2,773.8	2,799.2	2,787.1	10.0	9.7	-153.60	93.0	130.6	126.5	107.9	18.63	6.793		
2,900.0	2,871.2	2,898.7	2,885.6	10.4	10.0	-153.96	99.9	142.5	136.4	117.1	19.30	7.065		
3,000.0	2,968.7	2,998.2	2,984.1	10.8	10.4	-154.27	106.8	154.5	146.2	126.2	19.99	7.315		
3,100.0	3,066.1	3,097.7	3,082.7	11.2	10.8	-154.54	113.7	166.5	156.0	135.3	20.68	7.545		
3,200.0	3,163.5	3,197.2	3,181.2	11.6	11.2	-154.78	120.7	178.5	165.9	144.5	21.38	7.757		
3,300.0	3,261.0	3,296.7	3,279.8	12.1	11.5	-154.99	127.6	190.5	175.7	153.6	22.09	7.953		
3,400.0	3,358.4	3,396.2	3,378.3	12.5	11.9	-155.18	134.5	202.5	185.5	162.7	22.81	8.134		
3,500.0	3,455.8	3,495.7	3,476.9	12.9	12.3	-155.35	141.4	214.5	195.4	171.9	23.54	8.302		
3,600.0	3,553.3	3,595.3	3,575.4	13.4	12.7	-155.51	148.4	226.5	205.2	181.0	24.27	8.457		
3,700.0	3,650.7	3,694.8	3,673.9	13.8	13.1	-155.65	155.3	238.5	215.1	190.1	25.00	8.602		
3,800.0	3,748.2	3,794.3	3,772.5	14.2	13.5	-155.78	162.2	250.5	224.9	199.2	25.75	8.737		
3,900.0	3,845.6	3,892.3	3,869.7	14.7	13.9	-155.95	168.8	262.0	235.1	208.6	26.49	8.874		
4,000.0	3,943.0	3,990.2	3,966.7	15.1	14.3	-156.22	175.1	272.8	245.9	218.6	27.25	9.022		
4,100.0	4,040.5	4,087.8	4,063.6	15.6	14.7	-156.60	180.9	282.8	257.3	229.3	28.02	9.182		
4,200.0	4,137.9	4,185.3	4,160.5	16.0	15.0	-157.04	186.2	292.1	269.5	240.7	28.81	9.353		
4,300.0	4,235.3	4,282.6	4,257.3	16.5	15.4	-157.55	191.2	300.7	282.3	252.7	29.61	9.535		
4,400.0	4,332.8	4,379.6	4,353.9	17.0	15.8	-158.12	195.7	308.5	295.8	265.4	30.41	9.727		
4,500.0	4,430.2	4,476.5	4,450.5	17.4	16.1	-158.72	199.8	315.6	310.1	278.8	31.22	9.930		
4,600.0	4,527.7	4,573.1	4,546.8	17.9	16.5	-159.36	203.5	322.0	325.0	293.0	32.04	10.144		
4,700.0	4,625.1	4,669.5	4,643.0	18.3	16.8	-160.01	206.8	327.7	340.7	307.8	32.85	10.369		
4,800.0	4,722.5	4,765.7	4,739.0	18.8	17.2	-160.69	209.7	332.7	357.0	323.4	33.67	10.605		
4,900.0	4,820.0	4,861.6	4,834.7	19.3	17.5	-161.37	212.1	337.0	374.2	339.7	34.48	10.852		
5,000.0	4,917.4	4,957.2	4,930.2	19.7	17.8	-162.06	214.2	340.5	392.0	356.8	35.28	11.111		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)					
5,100.0	5,014.8	5,052.5	5,025.5	20.2	18.1	-162.74	215.8	343.4	410.7	374.6	36.08	11.382	
5,200.0	5,112.3	5,147.5	5,120.4	20.6	18.3	-163.43	217.1	345.5	430.0	393.2	36.86	11.666	
5,300.0	5,209.7	5,242.2	5,215.1	21.1	18.6	-164.10	217.9	347.0	450.2	412.5	37.63	11.964	
5,400.0	5,307.1	5,336.5	5,309.5	21.6	18.8	-164.77	218.4	347.8	471.0	432.7	38.35	12.283	
5,500.0	5,404.6	5,431.6	5,404.6	22.0	18.9	-165.43	218.5	348.0	492.6	453.6	39.01	12.627	
5,600.0	5,502.0	5,529.1	5,502.0	22.5	19.0	-166.06	218.5	348.0	514.5	474.8	39.66	12.973	
5,700.0	5,599.5	5,626.5	5,599.5	23.0	19.0	-166.63	218.5	348.0	536.4	496.1	40.29	13.311	
5,800.0	5,696.9	5,724.0	5,696.9	23.5	19.1	-167.17	218.5	348.0	558.3	517.4	40.93	13.641	
5,900.0	5,794.3	5,821.4	5,794.3	23.9	19.1	-167.66	218.5	348.0	580.3	538.7	41.56	13.963	
6,000.0	5,891.8	5,918.8	5,891.8	24.4	19.2	-168.12	218.5	348.0	602.3	560.1	42.19	14.277	
6,100.0	5,989.2	6,016.3	5,989.2	24.9	19.2	-168.54	218.5	348.0	624.4	581.5	42.81	14.584	
6,200.0	6,086.6	6,113.7	6,086.6	25.3	19.3	-168.94	218.5	348.0	646.4	603.0	43.44	14.883	
6,300.0	6,184.1	6,211.2	6,184.1	25.8	19.3	-169.32	218.5	348.0	668.4	624.3	44.04	15.177	
6,400.0	6,281.9	6,309.0	6,281.9	26.3	19.4	-169.68	218.5	348.0	688.9	644.3	44.65	15.429	
6,500.0	6,380.1	6,407.1	6,380.1	26.7	19.4	-169.99	218.5	348.0	707.8	662.5	45.25	15.642	
6,600.0	6,478.5	6,505.6	6,478.5	27.2	19.5	-170.26	218.5	348.0	725.0	679.2	45.83	15.818	
6,700.0	6,577.3	6,604.3	6,577.3	27.6	19.5	-170.49	218.5	348.0	740.5	694.1	46.41	15.957	
6,800.0	6,676.3	6,703.4	6,676.3	28.0	19.6	-170.69	218.5	348.0	754.3	707.3	46.96	16.062	
6,900.0	6,775.5	6,802.6	6,775.5	28.4	19.6	-170.86	218.5	348.0	766.4	718.9	47.50	16.134	
7,000.0	6,875.0	6,902.0	6,875.0	28.9	19.7	-171.00	218.5	348.0	776.8	728.8	48.03	16.175	
7,100.0	6,974.6	7,001.7	6,974.6	29.2	19.7	-171.11	218.5	348.0	785.5	737.0	48.53	16.187	
7,200.0	7,074.3	7,101.4	7,074.3	29.6	19.8	-171.20	218.5	348.0	792.5	743.5	49.01	16.171	
7,300.0	7,174.2	7,201.3	7,174.2	29.9	19.8	-171.27	218.5	348.0	797.7	748.3	49.46	16.130	
7,400.0	7,274.1	7,301.2	7,274.1	30.3	19.9	-171.31	218.5	348.0	801.3	751.4	49.87	16.067	
7,500.0	7,374.1	7,401.2	7,374.1	30.5	19.9	-171.34	218.5	348.0	803.1	752.9	50.23	15.990	
7,600.0	7,474.1	7,501.2	7,474.1	30.6	20.0	-96.34	218.5	348.0	803.3	753.0	50.35	15.954	
7,700.0	7,574.1	7,601.2	7,574.1	30.6	20.1	-96.34	218.5	348.0	803.3	752.9	50.43	15.930	
7,800.0	7,674.1	7,701.2	7,674.1	30.7	20.1	-96.34	218.5	348.0	803.3	752.8	50.51	15.905	
7,900.0	7,774.1	7,801.2	7,774.1	30.7	20.2	-96.34	218.5	348.0	803.3	752.8	50.59	15.880	
8,000.0	7,874.1	7,901.2	7,874.1	30.7	20.2	-96.34	218.5	348.0	803.3	752.7	50.67	15.855	
8,100.0	7,974.1	8,001.2	7,974.1	30.8	20.3	-96.34	218.5	348.0	803.3	752.6	50.75	15.831	
8,200.0	8,074.1	8,101.2	8,074.1	30.8	20.3	-96.34	218.5	348.0	803.3	752.5	50.83	15.806	
8,300.0	8,174.1	8,201.2	8,174.1	30.8	20.4	-96.34	218.5	348.0	803.3	752.4	50.91	15.781	
8,400.0	8,274.1	8,301.2	8,274.1	30.8	20.4	-96.34	218.5	348.0	803.3	752.4	50.99	15.756	
8,500.0	8,374.1	8,401.2	8,374.1	30.9	20.5	-96.34	218.5	348.0	803.3	752.3	51.07	15.731	
8,600.0	8,474.1	8,501.2	8,474.1	30.9	20.5	-96.34	218.5	348.0	803.3	752.2	51.15	15.706	
8,700.0	8,574.1	8,601.2	8,574.1	30.9	20.6	-96.34	218.5	348.0	803.3	752.1	51.23	15.681	
8,800.0	8,674.1	8,701.2	8,674.1	31.0	20.7	-96.34	218.5	348.0	803.3	752.0	51.31	15.656	
8,900.0	8,774.1	8,801.2	8,774.1	31.0	20.7	-96.34	218.5	348.0	803.3	752.0	51.40	15.631	
9,000.0	8,874.1	8,901.2	8,874.1	31.0	20.8	-96.34	218.5	348.0	803.3	751.9	51.48	15.605	
9,100.0	8,974.1	9,001.2	8,974.1	31.1	20.8	-96.34	218.5	348.0	803.3	751.8	51.56	15.580	
9,200.0	9,074.1	9,101.2	9,074.1	31.1	20.9	-96.34	218.5	348.0	803.3	751.7	51.65	15.555	
9,300.0	9,174.1	9,201.2	9,174.1	31.1	20.9	-96.34	218.5	348.0	803.3	751.6	51.73	15.530	
9,400.0	9,274.1	9,301.2	9,274.1	31.2	21.0	-96.34	218.5	348.0	803.3	751.5	51.81	15.504	
9,500.0	9,374.1	9,401.2	9,374.1	31.2	21.1	-96.34	218.5	348.0	803.3	751.4	51.90	15.479	
9,600.0	9,474.1	9,501.2	9,474.1	31.2	21.1	-96.34	218.5	348.0	803.3	751.4	51.98	15.454	
9,700.0	9,574.1	9,601.2	9,574.1	31.3	21.2	-96.34	218.5	348.0	803.3	751.3	52.07	15.428	
9,800.0	9,674.1	9,701.2	9,674.1	31.3	21.2	-96.34	218.5	348.0	803.3	751.2	52.16	15.403	
9,900.0	9,774.1	9,801.2	9,774.1	31.3	21.3	-96.34	218.5	348.0	803.3	751.1	52.24	15.377	
10,000.0	9,874.1	9,901.2	9,874.1	31.4	21.4	-96.34	218.5	348.0	803.3	751.0	52.33	15.352	
10,100.0	9,974.1	10,001.2	9,974.1	31.4	21.4	-96.34	218.5	348.0	803.3	750.9	52.42	15.327	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.0	10,074.1	10,101.2	10,074.1	31.4	21.5	-96.34	218.5	348.0	803.3	750.8	52.50	15.301	
10,300.0	10,174.1	10,201.2	10,174.1	31.5	21.5	-96.34	218.5	348.0	803.3	750.8	52.59	15.276	
10,400.0	10,274.1	10,301.2	10,274.1	31.5	21.6	-96.34	218.5	348.0	803.3	750.7	52.68	15.250	
10,500.0	10,374.1	10,401.2	10,374.1	31.6	21.6	-96.34	218.5	348.0	803.3	750.6	52.77	15.225	
10,600.0	10,474.1	10,501.2	10,474.1	31.6	21.7	-96.34	218.5	348.0	803.3	750.5	52.86	15.199	
10,700.0	10,574.1	10,601.2	10,574.1	31.6	21.8	-96.34	218.5	348.0	803.3	750.4	52.94	15.173	
10,800.0	10,674.1	10,701.2	10,674.1	31.7	21.8	-96.34	218.5	348.0	803.3	750.3	53.03	15.148	
10,900.0	10,774.1	10,801.2	10,774.1	31.7	21.9	-96.34	218.5	348.0	803.3	750.2	53.12	15.122	
11,000.0	10,874.1	10,901.2	10,874.1	31.7	21.9	-96.34	218.5	348.0	803.3	750.1	53.21	15.097	
11,100.0	10,974.1	11,001.2	10,974.1	31.8	22.0	-96.34	218.5	348.0	803.3	750.0	53.30	15.071	
11,200.0	11,074.1	11,101.2	11,074.1	31.8	22.1	-96.34	218.5	348.0	803.3	750.0	53.39	15.046	
11,300.0	11,174.1	11,201.2	11,174.1	31.8	22.1	-96.34	218.5	348.0	803.3	749.9	53.49	15.020	
11,400.0	11,274.1	11,301.2	11,274.1	31.9	22.2	-96.34	218.5	348.0	803.3	749.8	53.58	14.994	
11,500.0	11,374.1	11,401.2	11,374.1	31.9	22.2	-96.34	218.5	348.0	803.3	749.7	53.67	14.969	
11,600.0	11,474.1	11,501.2	11,474.1	32.0	22.3	-96.34	218.5	348.0	803.3	749.6	53.76	14.943	
11,700.0	11,574.1	11,601.2	11,574.1	32.0	22.4	-96.34	218.5	348.0	803.3	749.5	53.85	14.917	
11,800.0	11,674.1	11,701.2	11,674.1	32.0	22.4	-96.34	218.5	348.0	803.3	749.4	53.95	14.892	
11,900.0	11,774.1	11,801.2	11,774.1	32.1	22.5	-96.34	218.5	348.0	803.3	749.3	54.04	14.866	
12,000.0	11,874.1	11,888.5	11,861.1	32.1	22.4	-96.78	212.3	348.0	804.1	750.1	54.04	14.881	
12,100.0	11,974.1	11,971.7	11,942.3	32.1	22.3	-98.06	194.1	348.2	806.8	752.7	54.05	14.926	
12,200.0	12,074.1	12,050.0	12,015.5	32.2	22.2	-100.00	166.5	348.5	812.4	758.3	54.04	15.032	
12,300.0	12,174.1	12,116.7	12,074.3	32.2	22.0	-102.16	135.3	348.8	822.0	768.1	53.91	15.250	
12,400.0	12,274.1	12,176.4	12,123.7	32.3	21.9	-104.45	101.7	349.1	837.0	783.4	53.67	15.596	
12,500.0	12,374.1	12,228.0	12,163.3	32.3	21.9	-106.66	68.7	349.4	858.2	804.9	53.35	16.087	
12,600.0	12,474.1	12,272.3	12,194.8	32.3	21.8	-108.69	37.6	349.7	886.3	833.3	53.01	16.720	
12,700.0	12,574.1	12,311.1	12,220.4	32.3	21.8	68.34	8.4	350.0	920.6	868.0	52.65	17.485	
12,800.0	12,672.5	12,350.0	12,244.0	32.2	21.7	63.28	-22.5	350.2	956.3	904.0	52.26	18.300	
12,900.0	12,766.5	12,400.0	12,271.2	32.1	21.7	58.48	-64.5	350.6	990.6	938.7	51.92	19.081	
13,000.0	12,853.3	12,432.4	12,286.8	32.0	21.6	54.91	-92.9	350.9	1,021.8	970.1	51.71	19.760	
13,100.0	12,930.1	12,474.5	12,304.6	31.9	21.6	51.83	-131.0	351.3	1,048.9	997.4	51.57	20.341	
13,200.0	12,994.7	12,517.0	12,319.7	31.9	21.6	49.49	-170.7	351.6	1,070.8	1,019.3	51.47	20.803	
13,300.0	13,045.1	12,550.0	12,329.4	31.8	21.6	47.93	-202.2	351.9	1,086.8	1,035.4	51.42	21.136	
13,400.0	13,079.7	12,600.0	12,340.5	31.9	21.6	46.94	-251.0	352.4	1,096.2	1,044.9	51.31	21.366	
13,500.0	13,097.5	12,650.0	12,347.4	32.0	21.6	46.66	-300.5	352.8	1,099.0	1,047.9	51.16	21.483	
13,600.0	13,100.0	12,704.1	12,350.0	32.1	21.7	46.82	-354.4	353.4	1,096.6	1,045.6	50.96	21.520	
13,634.9	13,100.0	12,704.9	12,350.0	32.1	21.7	46.82	-355.3	353.4	1,096.0	1,045.2	50.87	21.544	
13,700.0	13,100.0	12,770.0	12,350.0	32.2	21.8	46.82	-420.3	354.0	1,096.1	1,045.3	50.74	21.602	
13,800.0	13,100.0	12,870.0	12,350.0	32.4	21.9	46.82	-520.3	354.9	1,096.1	1,045.5	50.57	21.672	
13,900.0	13,100.0	12,970.0	12,350.0	32.7	22.0	46.82	-620.3	355.8	1,096.1	1,045.6	50.46	21.720	
14,000.0	13,100.0	13,070.0	12,350.0	32.9	22.2	46.82	-720.3	356.8	1,096.1	1,045.7	50.41	21.745	
14,100.0	13,100.0	13,170.0	12,350.0	33.2	22.4	46.82	-820.3	357.7	1,096.1	1,045.7	50.40	21.746	
14,200.0	13,100.0	13,270.0	12,350.0	33.5	22.6	46.82	-920.3	358.7	1,096.1	1,045.6	50.45	21.724	
14,300.0	13,100.0	13,370.0	12,350.0	33.8	22.8	46.82	-1,020.3	359.6	1,096.1	1,045.5	50.56	21.680	
14,400.0	13,100.0	13,470.0	12,350.0	34.1	23.1	46.82	-1,120.3	360.5	1,096.1	1,045.4	50.71	21.613	
14,500.0	13,100.0	13,570.0	12,350.0	34.5	23.4	46.82	-1,220.3	361.5	1,096.1	1,045.2	50.92	21.524	
14,600.0	13,100.0	13,670.0	12,350.0	34.9	23.7	46.82	-1,320.3	362.4	1,096.1	1,044.9	51.19	21.414	
14,700.0	13,100.0	13,770.0	12,350.0	35.3	24.0	46.82	-1,420.3	363.3	1,096.1	1,044.6	51.50	21.283	
14,800.0	13,100.0	13,870.0	12,350.0	35.7	24.3	46.82	-1,520.3	364.3	1,096.1	1,044.2	51.86	21.134	
14,900.0	13,100.0	13,970.0	12,350.0	36.1	24.7	46.82	-1,620.3	365.2	1,096.1	1,043.8	52.28	20.967	
15,000.0	13,100.0	14,070.0	12,350.0	36.6	25.0	46.82	-1,720.3	366.2	1,096.1	1,043.4	52.74	20.784	
15,100.0	13,100.0	14,170.0	12,350.0	37.1	25.4	46.82	-1,820.3	367.1	1,096.1	1,042.9	53.24	20.586	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS				Rule Assigned:					Offset Well Error: 3.0 usft				
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,200.0	13,100.0	14,270.0	12,350.0	37.6	25.8	46.82	-1,920.3	368.0	1,096.1	1,042.3	53.80	20.374	
15,300.0	13,100.0	14,370.0	12,350.0	38.1	26.2	46.82	-2,020.3	369.0	1,096.1	1,041.7	54.40	20.151	
15,400.0	13,100.0	14,470.0	12,350.0	38.7	26.7	46.82	-2,120.3	369.9	1,096.1	1,041.1	55.04	19.917	
15,500.0	13,100.0	14,570.0	12,350.0	39.2	27.1	46.82	-2,220.3	370.8	1,096.1	1,040.4	55.72	19.673	
15,600.0	13,100.0	14,670.0	12,350.0	39.8	27.6	46.82	-2,320.3	371.8	1,096.1	1,039.7	56.44	19.422	
15,700.0	13,100.0	14,770.0	12,350.0	40.4	28.1	46.82	-2,420.3	372.7	1,096.1	1,038.9	57.20	19.164	
15,800.0	13,100.0	14,870.0	12,350.0	41.0	28.6	46.83	-2,520.3	373.6	1,096.1	1,038.1	57.99	18.901	
15,900.0	13,100.0	14,970.0	12,350.0	41.6	29.1	46.83	-2,620.3	374.6	1,096.1	1,037.3	58.82	18.634	
16,000.0	13,100.0	15,070.0	12,350.0	42.2	29.6	46.83	-2,720.2	375.5	1,096.1	1,036.4	59.69	18.365	
16,100.0	13,100.0	15,170.0	12,350.0	42.8	30.1	46.83	-2,820.2	376.5	1,096.1	1,035.6	60.58	18.093	
16,200.0	13,100.0	15,270.0	12,350.0	43.5	30.6	46.83	-2,920.2	377.4	1,096.1	1,034.6	61.51	17.820	
16,300.0	13,100.0	15,370.0	12,350.0	44.1	31.2	46.83	-3,020.2	378.3	1,096.1	1,033.7	62.47	17.547	
16,400.0	13,100.0	15,470.0	12,350.0	44.8	31.7	46.83	-3,120.2	379.3	1,096.1	1,032.7	63.45	17.275	
16,500.0	13,100.0	15,570.0	12,350.0	45.5	32.3	46.83	-3,220.2	380.2	1,096.2	1,031.7	64.46	17.004	
16,600.0	13,100.0	15,670.0	12,350.0	46.2	32.9	46.83	-3,320.2	381.1	1,096.2	1,030.7	65.50	16.735	
16,700.0	13,100.0	15,770.0	12,350.0	46.9	33.4	46.83	-3,420.2	382.1	1,096.2	1,029.6	66.56	16.468	
16,800.0	13,100.0	15,870.0	12,350.0	47.6	34.0	46.83	-3,520.2	383.0	1,096.2	1,028.5	67.65	16.204	
16,900.0	13,100.0	15,970.0	12,350.0	48.3	34.6	46.83	-3,620.2	383.9	1,096.2	1,027.4	68.75	15.943	
17,000.0	13,100.0	16,070.0	12,350.0	49.0	35.2	46.83	-3,720.2	384.9	1,096.2	1,026.3	69.88	15.686	
17,100.0	13,100.0	16,170.0	12,350.0	49.7	35.8	46.83	-3,820.2	385.8	1,096.2	1,025.1	71.03	15.433	
17,200.0	13,100.0	16,270.0	12,350.0	50.5	36.4	46.83	-3,920.2	386.8	1,096.2	1,024.0	72.20	15.183	
17,300.0	13,100.0	16,370.0	12,350.0	51.2	37.1	46.83	-4,020.2	387.7	1,096.2	1,022.8	73.38	14.938	
17,400.0	13,100.0	16,470.0	12,350.0	52.0	37.7	46.83	-4,120.2	388.6	1,096.2	1,021.6	74.58	14.697	
17,500.0	13,100.0	16,570.0	12,350.0	52.7	38.3	46.83	-4,220.2	389.6	1,096.2	1,020.4	75.80	14.461	
17,600.0	13,100.0	16,670.0	12,350.0	53.5	38.9	46.83	-4,320.2	390.5	1,096.2	1,019.2	77.04	14.230	
17,700.0	13,100.0	16,770.0	12,350.0	54.3	39.6	46.83	-4,420.2	391.4	1,096.2	1,017.9	78.28	14.003	
17,800.0	13,100.0	16,870.0	12,350.0	55.1	40.2	46.83	-4,520.2	392.4	1,096.2	1,016.6	79.55	13.780	
17,900.0	13,100.0	16,970.0	12,350.0	55.8	40.9	46.83	-4,620.2	393.3	1,096.2	1,015.4	80.82	13.563	
18,000.0	13,100.0	17,070.0	12,350.0	56.6	41.5	46.83	-4,720.2	394.3	1,096.2	1,014.1	82.11	13.350	
18,100.0	13,100.0	17,170.0	12,350.0	57.4	42.2	46.83	-4,820.2	395.2	1,096.2	1,012.8	83.42	13.141	
18,200.0	13,100.0	17,270.0	12,350.0	58.2	42.8	46.83	-4,920.2	396.1	1,096.2	1,011.5	84.73	12.938	
18,300.0	13,100.0	17,370.0	12,350.0	59.0	43.5	46.83	-5,020.1	397.1	1,096.2	1,010.2	86.05	12.739	
18,400.0	13,100.0	17,470.0	12,350.0	59.9	44.2	46.83	-5,120.1	398.0	1,096.2	1,008.8	87.39	12.544	
18,500.0	13,100.0	17,570.0	12,350.0	60.7	44.8	46.83	-5,220.1	398.9	1,096.2	1,007.5	88.74	12.354	
18,600.0	13,100.0	17,670.0	12,350.0	61.5	45.5	46.83	-5,320.1	399.9	1,096.2	1,006.1	90.09	12.168	
18,700.0	13,100.0	17,770.0	12,350.0	62.3	46.2	46.83	-5,420.1	400.8	1,096.2	1,004.8	91.46	11.987	
18,800.0	13,100.0	17,870.0	12,350.0	63.1	46.9	46.83	-5,520.1	401.7	1,096.2	1,003.4	92.83	11.809	
18,900.0	13,100.0	17,970.0	12,350.0	64.0	47.5	46.83	-5,620.1	402.7	1,096.2	1,002.0	94.21	11.636	
19,000.0	13,100.0	18,070.0	12,350.0	64.8	48.2	46.83	-5,720.1	403.6	1,096.2	1,000.6	95.60	11.467	
19,100.0	13,100.0	18,170.0	12,350.0	65.6	48.9	46.83	-5,820.1	404.6	1,096.2	999.2	97.00	11.302	
19,200.0	13,100.0	18,270.0	12,350.0	66.5	49.6	46.83	-5,920.1	405.5	1,096.2	997.8	98.40	11.140	
19,300.0	13,100.0	18,370.0	12,350.0	67.3	50.3	46.83	-6,020.1	406.4	1,096.2	996.4	99.82	10.983	
19,400.0	13,100.0	18,470.0	12,350.0	68.2	51.0	46.83	-6,120.1	407.4	1,096.3	995.0	101.24	10.829	
19,500.0	13,100.0	18,570.0	12,350.0	69.0	51.7	46.83	-6,220.1	408.3	1,096.3	993.6	102.66	10.678	
19,600.0	13,100.0	18,670.0	12,350.0	69.9	52.4	46.83	-6,320.1	409.2	1,096.3	992.2	104.09	10.532	
19,700.0	13,100.0	18,770.0	12,350.0	70.7	53.1	46.83	-6,420.1	410.2	1,096.3	990.7	105.53	10.388	
19,800.0	13,100.0	18,870.0	12,350.0	71.6	53.8	46.83	-6,520.1	411.1	1,096.3	989.3	106.97	10.248	
19,900.0	13,100.0	18,970.0	12,350.0	72.5	54.5	46.83	-6,620.1	412.1	1,096.3	987.8	108.42	10.111	
20,000.0	13,100.0	19,070.0	12,350.0	73.3	55.2	46.83	-6,720.1	413.0	1,096.3	986.4	109.88	9.977	
20,100.0	13,100.0	19,170.0	12,350.0	74.2	55.9	46.83	-6,820.1	413.9	1,096.3	984.9	111.34	9.846	
20,200.0	13,100.0	19,270.0	12,350.0	75.1	56.6	46.83	-6,920.1	414.9	1,096.3	983.5	112.80	9.719	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,300.0	13,100.0	19,370.0	12,350.0	75.9	57.3	46.83	-7,020.1	415.8	1,096.3	982.0	114.27	9.594	
20,400.0	13,100.0	19,470.0	12,350.0	76.8	58.0	46.83	-7,120.1	416.7	1,096.3	980.5	115.75	9.471	
20,500.0	13,100.0	19,570.0	12,350.0	77.7	58.7	46.83	-7,220.1	417.7	1,096.3	979.1	117.22	9.352	
20,600.0	13,100.0	19,670.0	12,350.0	78.6	59.4	46.83	-7,320.0	418.6	1,096.3	977.6	118.71	9.235	
20,700.0	13,100.0	19,770.0	12,350.0	79.4	60.1	46.83	-7,420.0	419.5	1,096.3	976.1	120.19	9.121	
20,800.0	13,100.0	19,870.0	12,350.0	80.3	60.9	46.83	-7,520.0	420.5	1,096.3	974.6	121.68	9.009	
20,900.0	13,100.0	19,970.0	12,350.0	81.2	61.6	46.83	-7,620.0	421.4	1,096.3	973.1	123.18	8.900	
21,000.0	13,100.0	20,070.0	12,350.0	82.1	62.3	46.83	-7,720.0	422.4	1,096.3	971.6	124.68	8.793	
21,100.0	13,100.0	20,170.0	12,350.0	83.0	63.0	46.83	-7,820.0	423.3	1,096.3	970.1	126.18	8.689	
21,200.0	13,100.0	20,270.0	12,350.0	83.9	63.7	46.83	-7,920.0	424.2	1,096.3	968.6	127.68	8.586	
21,300.0	13,100.0	20,370.0	12,350.0	84.8	64.4	46.83	-8,020.0	425.2	1,096.3	967.1	129.19	8.486	
21,400.0	13,100.0	20,470.0	12,350.0	85.7	65.2	46.83	-8,120.0	426.1	1,096.3	965.6	130.70	8.388	
21,500.0	13,100.0	20,570.0	12,350.0	86.6	65.9	46.83	-8,220.0	427.0	1,096.3	964.1	132.21	8.292	
21,600.0	13,100.0	20,670.0	12,350.0	87.4	66.6	46.84	-8,320.0	428.0	1,096.3	962.6	133.73	8.198	
21,700.0	13,100.0	20,770.0	12,350.0	88.3	67.3	46.84	-8,420.0	428.9	1,096.3	961.1	135.25	8.106	
21,800.0	13,100.0	20,870.0	12,350.0	89.2	68.1	46.84	-8,520.0	429.9	1,096.3	959.6	136.77	8.016	
21,900.0	13,100.0	20,970.0	12,350.0	90.1	68.8	46.84	-8,620.0	430.8	1,096.3	958.0	138.30	7.927	
22,000.0	13,100.0	21,070.0	12,350.0	91.0	69.5	46.84	-8,720.0	431.7	1,096.3	956.5	139.83	7.841	
22,100.0	13,100.0	21,170.0	12,350.0	91.9	70.2	46.84	-8,820.0	432.7	1,096.3	955.0	141.36	7.756	
22,200.0	13,100.0	21,270.0	12,350.0	92.8	71.0	46.84	-8,920.0	433.6	1,096.4	953.5	142.89	7.673	
22,300.0	13,100.0	21,370.0	12,350.0	93.8	71.7	46.84	-9,020.0	434.5	1,096.4	951.9	144.42	7.591	
22,400.0	13,100.0	21,470.0	12,350.0	94.7	72.4	46.84	-9,120.0	435.5	1,096.4	950.4	145.96	7.511	
22,500.0	13,100.0	21,570.0	12,350.0	95.6	73.2	46.84	-9,220.0	436.4	1,096.4	948.9	147.50	7.433	
22,600.0	13,100.0	21,670.0	12,350.0	96.5	73.9	46.84	-9,320.0	437.3	1,096.4	947.3	149.04	7.356	
22,700.0	13,100.0	21,770.0	12,350.0	97.4	74.6	46.84	-9,420.0	438.3	1,096.4	945.8	150.58	7.281	
22,800.0	13,100.0	21,870.0	12,350.0	98.3	75.4	46.84	-9,520.0	439.2	1,096.4	944.2	152.13	7.207	
22,900.0	13,100.0	21,970.0	12,350.0	99.2	76.1	46.84	-9,619.9	440.2	1,096.4	942.7	153.68	7.134	
23,000.0	13,100.0	22,070.0	12,350.0	100.1	76.8	46.84	-9,719.9	441.1	1,096.4	941.2	155.23	7.063	
23,100.0	13,100.0	22,170.0	12,350.0	101.0	77.6	46.84	-9,819.9	442.0	1,096.4	939.6	156.78	6.993	
23,200.0	13,100.0	22,270.0	12,350.0	101.9	78.3	46.84	-9,919.9	443.0	1,096.4	938.1	158.33	6.925	
23,300.0	13,100.0	22,370.0	12,350.0	102.9	79.0	46.84	-10,019.9	443.9	1,096.4	936.5	159.88	6.857	
23,400.0	13,100.0	22,470.0	12,350.0	103.8	79.8	46.84	-10,119.9	444.8	1,096.4	935.0	161.44	6.791	
23,500.0	13,100.0	22,570.0	12,350.0	104.7	80.5	46.84	-10,219.9	445.8	1,096.4	933.4	163.00	6.726	
23,600.0	13,100.0	22,670.0	12,350.0	105.6	81.2	46.84	-10,319.9	446.7	1,096.4	931.8	164.56	6.663	
23,700.0	13,100.0	22,770.0	12,350.0	106.5	82.0	46.84	-10,419.9	447.7	1,096.4	930.3	166.12	6.600	
23,800.0	13,100.0	22,870.0	12,350.0	107.4	82.7	46.84	-10,519.9	448.6	1,096.4	928.7	167.68	6.539	
23,900.0	13,100.0	22,970.0	12,350.0	108.4	83.4	46.84	-10,619.9	449.5	1,096.4	927.2	169.24	6.478	
24,000.0	13,100.0	23,070.0	12,350.0	109.3	84.2	46.84	-10,719.9	450.5	1,096.4	925.6	170.81	6.419	
24,100.0	13,100.0	23,170.0	12,350.0	110.2	84.9	46.84	-10,819.9	451.4	1,096.4	924.0	172.37	6.361	
24,200.0	13,100.0	23,270.0	12,350.0	111.1	85.7	46.84	-10,919.9	452.3	1,096.4	922.5	173.94	6.303	
24,300.0	13,100.0	23,370.0	12,350.0	112.1	86.4	46.84	-11,019.9	453.3	1,096.4	920.9	175.51	6.247	
24,400.0	13,100.0	23,470.0	12,350.0	113.0	87.1	46.84	-11,119.9	454.2	1,096.4	919.3	177.08	6.192	
24,500.0	13,100.0	23,570.0	12,350.0	113.9	87.9	46.84	-11,219.9	455.1	1,096.4	917.8	178.65	6.137	
24,600.0	13,100.0	23,670.0	12,350.0	114.8	88.6	46.84	-11,319.9	456.1	1,096.4	916.2	180.22	6.084	
24,700.0	13,100.0	23,770.0	12,350.0	115.7	89.4	46.84	-11,419.9	457.0	1,096.4	914.6	181.80	6.031	
24,800.0	13,100.0	23,870.0	12,350.0	116.7	90.1	46.84	-11,519.9	458.0	1,096.4	913.1	183.37	5.979	
24,900.0	13,100.0	23,970.0	12,350.0	117.6	90.9	46.84	-11,619.9	458.9	1,096.4	911.5	184.95	5.928	
25,000.0	13,100.0	24,070.0	12,350.0	118.5	91.6	46.84	-11,719.9	459.8	1,096.5	909.9	186.53	5.878	
25,100.0	13,100.0	24,170.0	12,350.0	119.5	92.3	46.84	-11,819.8	460.8	1,096.5	908.4	188.10	5.829	
25,200.0	13,100.0	24,270.0	12,350.0	120.4	93.1	46.84	-11,919.8	461.7	1,096.5	906.8	189.68	5.780	
25,300.0	13,100.0	24,370.0	12,350.0	121.3	93.8	46.84	-12,019.8	462.6	1,096.5	905.2	191.26	5.733	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
25,400.0	13,100.0	24,470.0	12,350.0	122.2	94.6	46.84	-12,119.8	463.6	1,096.5	903.6	192.84	5.686	
25,500.0	13,100.0	24,570.0	12,350.0	123.2	95.3	46.84	-12,219.8	464.5	1,096.5	902.0	194.43	5.640	
25,600.0	13,100.0	24,670.0	12,350.0	124.1	96.1	46.84	-12,319.8	465.5	1,096.5	900.5	196.01	5.594	
25,700.0	13,100.0	24,770.0	12,350.0	125.0	96.8	46.84	-12,419.8	466.4	1,096.5	898.9	197.59	5.549	
25,800.0	13,100.0	24,870.0	12,350.0	126.0	97.6	46.84	-12,519.8	467.3	1,096.5	897.3	199.18	5.505	
25,900.0	13,100.0	24,970.0	12,350.0	126.9	98.3	46.84	-12,619.8	468.3	1,096.5	895.7	200.76	5.462	
26,000.0	13,100.0	25,070.0	12,350.0	127.8	99.0	46.84	-12,719.8	469.2	1,096.5	894.1	202.35	5.419	
26,100.0	13,100.0	25,170.0	12,350.0	128.8	99.8	46.84	-12,819.8	470.1	1,096.5	892.6	203.94	5.377	
26,200.0	13,100.0	25,270.0	12,350.0	129.7	100.5	46.84	-12,919.8	471.1	1,096.5	891.0	205.52	5.335	
26,300.0	13,100.0	25,370.0	12,350.0	130.6	101.3	46.84	-13,019.8	472.0	1,096.5	889.4	207.11	5.294	
26,400.0	13,100.0	25,470.0	12,350.0	131.6	102.0	46.84	-13,119.8	472.9	1,096.5	887.8	208.70	5.254	
26,500.0	13,100.0	25,570.0	12,350.0	132.5	102.8	46.84	-13,219.8	473.9	1,096.5	886.2	210.29	5.214	
26,600.0	13,100.0	25,670.0	12,350.0	133.4	103.5	46.84	-13,319.8	474.8	1,096.5	884.6	211.88	5.175	
26,700.0	13,100.0	25,770.0	12,350.0	134.4	104.3	46.84	-13,419.8	475.8	1,096.5	883.0	213.47	5.136	
26,800.0	13,100.0	25,870.0	12,350.0	135.3	105.0	46.84	-13,519.8	476.7	1,096.5	881.4	215.07	5.098	
26,900.0	13,100.0	25,970.0	12,350.0	136.2	105.8	46.84	-13,619.8	477.6	1,096.5	879.9	216.66	5.061	
27,000.0	13,100.0	26,070.0	12,350.0	137.2	106.5	46.84	-13,719.8	478.6	1,096.5	878.3	218.25	5.024	
27,100.0	13,100.0	26,170.0	12,350.0	138.1	107.3	46.84	-13,819.8	479.5	1,096.5	876.7	219.85	4.988	
27,200.0	13,100.0	26,270.0	12,350.0	139.0	108.0	46.84	-13,919.8	480.4	1,096.5	875.1	221.44	4.952	
27,300.0	13,100.0	26,370.0	12,350.0	140.0	108.8	46.85	-14,019.8	481.4	1,096.5	873.5	223.04	4.916	
27,400.0	13,100.0	26,470.0	12,350.0	140.9	109.5	46.85	-14,119.7	482.3	1,096.5	871.9	224.63	4.881	
27,500.0	13,100.0	26,570.0	12,350.0	141.9	110.3	46.85	-14,219.7	483.3	1,096.5	870.3	226.23	4.847	
27,600.0	13,100.0	26,670.0	12,350.0	142.8	111.0	46.85	-14,319.7	484.2	1,096.5	868.7	227.83	4.813	
27,700.0	13,100.0	26,770.0	12,350.0	143.7	111.8	46.85	-14,419.7	485.1	1,096.5	867.1	229.43	4.780	
27,800.0	13,100.0	26,870.0	12,350.0	144.7	112.5	46.85	-14,519.7	486.1	1,096.6	865.5	231.03	4.746	
27,900.0	13,100.0	26,970.0	12,350.0	145.6	113.3	46.85	-14,619.7	487.0	1,096.6	863.9	232.62	4.714	
28,000.0	13,100.0	27,070.0	12,350.0	146.6	114.0	46.85	-14,719.7	487.9	1,096.6	862.3	234.22	4.682	
28,100.0	13,100.0	27,170.0	12,350.0	147.5	114.8	46.85	-14,819.7	488.9	1,096.6	860.7	235.82	4.650	
28,200.0	13,100.0	27,270.0	12,350.0	148.4	115.5	46.85	-14,919.7	489.8	1,096.6	859.1	237.42	4.619	
28,300.0	13,100.0	27,370.0	12,350.0	149.4	116.3	46.85	-15,019.7	490.7	1,096.6	857.5	239.03	4.588	
28,400.0	13,100.0	27,470.0	12,350.0	150.3	117.0	46.85	-15,119.7	491.7	1,096.6	855.9	240.63	4.557	
28,500.0	13,100.0	27,570.0	12,350.0	151.3	117.8	46.85	-15,219.7	492.6	1,096.6	854.3	242.23	4.527	
28,600.0	13,100.0	27,670.0	12,350.0	152.2	118.5	46.85	-15,319.7	493.6	1,096.6	852.7	243.83	4.497	
28,700.0	13,100.0	27,770.0	12,350.0	153.1	119.3	46.85	-15,419.7	494.5	1,096.6	851.1	245.43	4.468	
28,800.0	13,100.0	27,870.0	12,350.0	154.1	120.0	46.85	-15,519.7	495.4	1,096.6	849.5	247.04	4.439	
28,900.0	13,100.0	27,970.0	12,350.0	155.0	120.8	46.85	-15,619.7	496.4	1,096.6	847.9	248.64	4.410	
29,000.0	13,100.0	28,070.0	12,350.0	156.0	121.5	46.85	-15,719.7	497.3	1,096.6	846.3	250.25	4.382	
29,100.0	13,100.0	28,170.0	12,350.0	156.9	122.3	46.85	-15,819.7	498.2	1,096.6	844.7	251.85	4.354	
29,200.0	13,100.0	28,270.0	12,350.0	157.9	123.0	46.85	-15,919.7	499.2	1,096.6	843.1	253.46	4.327	
29,300.0	13,100.0	28,370.0	12,350.0	158.8	123.8	46.85	-16,019.7	500.1	1,096.6	841.5	255.06	4.299	
29,398.9	13,100.0	28,468.9	12,350.0	159.7	124.5	46.85	-16,118.6	501.0	1,096.6	840.0	256.65	4.273	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - HENNIN FED #12H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 96-Standard Keeper 104, 11735-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
23,800.0	13,100.0	12,320.0	12,259.9	107.4	10.8	63.75	-11,134.6	-449.6	1,993.9	1,863.6	130.38	15.293		
23,900.0	13,100.0	12,336.7	12,269.7	108.4	10.8	64.02	-11,148.2	-449.9	1,965.6	1,832.5	133.09	14.769		
24,000.0	13,100.0	12,351.0	12,277.6	109.3	10.8	64.25	-11,160.1	-450.2	1,941.1	1,805.5	135.65	14.309		
24,100.0	13,100.0	12,383.0	12,293.6	110.2	10.9	64.69	-11,187.8	-450.7	1,920.3	1,782.3	138.00	13.915		
24,200.0	13,100.0	12,431.2	12,312.9	111.1	10.9	65.23	-11,231.9	-450.6	1,902.8	1,762.7	140.13	13.579		
24,300.0	13,100.0	12,486.6	12,330.1	112.1	11.0	65.70	-11,284.5	-449.3	1,888.1	1,746.0	142.07	13.289		
24,400.0	13,100.0	12,540.0	12,342.5	113.0	11.0	66.03	-11,336.4	-447.5	1,875.9	1,732.0	143.88	13.038		
24,500.0	13,100.0	12,571.0	12,346.9	113.9	11.1	66.14	-11,367.1	-446.3	1,866.9	1,721.3	145.59	12.823		
24,600.0	13,100.0	12,603.0	12,349.1	114.8	11.1	66.20	-11,399.0	-445.5	1,861.7	1,714.6	147.09	12.656		
24,700.0	13,100.0	12,616.3	12,355.7	115.7	11.6	66.25	-11,611.7	-433.4	1,857.5	1,709.5	148.03	12.548		
24,800.0	13,100.0	12,920.2	12,360.3	116.7	11.9	66.27	-11,715.1	-423.1	1,847.5	1,698.2	149.31	12.373		
24,900.0	13,100.0	13,032.4	12,365.3	117.6	12.4	66.28	-11,826.6	-411.7	1,837.3	1,686.8	150.55	12.204		
25,000.0	13,100.0	13,180.8	12,373.4	118.5	13.1	66.31	-11,973.6	-393.8	1,824.8	1,673.3	151.51	12.044		
25,100.0	13,100.0	13,257.3	12,377.3	119.5	13.5	66.30	-12,049.4	-383.9	1,811.8	1,658.8	153.02	11.841		
25,200.0	13,100.0	13,318.6	12,379.6	120.4	13.8	66.29	-12,110.2	-376.7	1,800.5	1,645.9	154.60	11.646		
25,300.0	13,100.0	13,381.0	12,380.7	121.3	14.1	66.25	-12,172.3	-370.7	1,791.7	1,635.6	156.12	11.476		
25,400.0	13,100.0	13,445.4	12,381.3	122.2	14.5	66.21	-12,236.5	-365.7	1,784.9	1,627.3	157.58	11.327		
25,500.0	13,100.0	13,519.0	12,382.6	123.2	14.9	66.20	-12,310.0	-361.2	1,779.5	1,620.5	158.99	11.192		
25,600.0	13,100.0	13,569.0	12,383.3	124.1	15.2	66.19	-12,359.9	-358.8	1,775.8	1,615.4	160.39	11.072		
25,699.0	13,100.0	13,635.7	12,383.7	125.0	15.6	66.19	-12,426.6	-357.0	1,774.3	1,612.6	161.70	10.973		
25,700.0	13,100.0	13,636.3	12,383.7	125.0	15.6	66.19	-12,427.1	-357.0	1,774.3	1,612.6	161.72	10.972		
25,800.0	13,100.0	13,718.0	12,383.6	126.0	16.1	66.20	-12,508.9	-357.2	1,775.3	1,612.3	163.05	10.888		
25,900.0	13,100.0	13,817.3	12,383.3	126.9	16.7	66.20	-12,608.1	-357.1	1,776.3	1,611.8	164.41	10.803		
26,000.0	13,100.0	13,919.5	12,382.2	127.8	17.4	66.18	-12,710.4	-357.0	1,777.4	1,611.6	165.78	10.721		
26,100.0	13,100.0	13,992.1	12,381.3	128.8	17.8	66.16	-12,782.9	-357.0	1,778.9	1,611.8	167.06	10.648		
26,200.0	13,100.0	14,100.7	12,379.7	129.7	18.5	66.16	-12,891.6	-359.0	1,782.1	1,613.7	168.47	10.578		
26,300.0	13,100.0	14,209.3	12,380.8	130.6	19.2	66.22	-13,000.1	-360.1	1,783.4	1,613.5	169.93	10.495		
26,400.0	13,100.0	14,356.5	12,383.1	131.6	20.2	66.31	-13,147.3	-360.6	1,784.1	1,612.6	171.49	10.404		
26,500.0	13,100.0	14,460.7	12,385.2	132.5	20.9	66.35	-13,251.5	-358.3	1,782.1	1,609.2	172.93	10.306		
26,600.0	13,100.0	14,563.9	12,386.3	133.4	21.6	66.38	-13,354.6	-357.1	1,781.5	1,607.2	174.36	10.218		
26,700.0	13,100.0	14,679.1	12,392.5	134.4	22.4	66.56	-13,469.6	-355.7	1,779.1	1,603.2	175.90	10.114		
26,800.0	13,100.0	14,781.1	12,399.8	135.3	23.1	66.78	-13,571.4	-355.3	1,776.7	1,599.2	177.46	10.012		
26,900.0	13,100.0	14,876.8	12,407.6	136.2	23.7	67.02	-13,666.8	-355.2	1,774.3	1,595.3	179.05	9.910		
27,000.0	13,100.0	14,978.9	12,416.4	137.2	24.5	67.30	-13,768.5	-355.5	1,772.1	1,591.4	180.66	9.809		
27,100.0	13,100.0	15,083.9	12,425.9	138.1	25.2	67.60	-13,873.1	-355.8	1,769.7	1,587.4	182.30	9.707		
27,200.0	13,100.0	15,193.1	12,435.2	139.0	26.0	67.89	-13,981.8	-355.3	1,766.9	1,583.0	183.94	9.606		
27,300.0	13,100.0	15,310.8	12,444.5	140.0	26.8	68.16	-14,099.1	-353.5	1,763.4	1,577.8	185.56	9.503		
27,400.0	13,100.0	15,403.2	12,452.3	140.9	27.4	68.38	-14,191.3	-351.6	1,759.3	1,572.1	187.17	9.400		
27,500.0	13,100.0	15,491.6	12,458.3	141.9	28.1	68.56	-14,279.4	-350.2	1,756.2	1,567.4	188.75	9.304		
27,600.0	13,100.0	15,597.7	12,465.0	142.8	28.8	68.75	-14,385.2	-348.3	1,753.1	1,562.8	190.34	9.211		
27,700.0	13,100.0	15,709.4	12,472.0	143.7	29.6	68.95	-14,496.7	-345.7	1,749.5	1,557.6	191.93	9.115		
27,800.0	13,100.0	15,788.8	12,477.3	144.7	30.2	69.10	-14,576.0	-344.0	1,746.0	1,552.5	193.51	9.023		
27,900.0	13,100.0	15,851.1	12,481.4	145.6	30.7	69.23	-14,638.1	-343.6	1,744.2	1,549.1	195.02	8.944		
27,922.6	13,100.0	15,863.2	12,482.0	145.8	30.8	69.25	-14,650.2	-343.7	1,744.1	1,548.8	195.34	8.929		
28,000.0	13,100.0	15,915.0	12,484.2	146.6	31.2	69.33	-14,701.9	-344.8	1,745.0	1,548.5	196.44	8.883		
28,100.0	13,100.0	15,993.3	12,486.2	147.5	31.7	69.43	-14,780.1	-347.0	1,747.5	1,549.6	197.86	8.832		
28,200.0	13,100.0	16,143.5	12,490.9	148.4	32.8	69.61	-14,930.3	-348.5	1,747.9	1,548.2	199.70	8.753		
28,210.2	13,100.0	16,151.1	12,491.2	148.5	32.9	69.62	-14,937.9	-348.5	1,747.9	1,548.0	199.85	8.746		
28,300.0	13,100.0	16,197.0	12,492.7	149.4	33.2	69.67	-14,983.7	-348.8	1,748.6	1,547.6	201.01	8.699		
28,400.0	13,100.0	16,291.0	12,496.0	150.3	33.9	69.81	-15,077.6	-351.7	1,751.2	1,548.6	202.57	8.645		
28,500.0	13,100.0	16,627.2	12,514.5	151.3	36.5	70.23	-15,412.4	-335.1	1,741.3	1,537.1	204.24	8.526		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - HENNIN FED #12H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 96-Standard Keeper 104, 11735-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
28,600.0	13,100.0	16,669.0	12,517.3	152.2	36.8	70.29	-15,453.9	-331.4	1,732.0	1,525.9	206.13	8.403	
28,700.0	13,100.0	16,731.9	12,520.2	153.1	37.3	70.34	-15,516.6	-327.1	1,725.3	1,517.5	207.79	8.303	
28,800.0	13,100.0	16,764.0	12,521.3	154.1	37.6	70.36	-15,548.7	-325.8	1,721.7	1,512.4	209.31	8.226	
28,900.0	13,100.0	16,859.0	12,522.5	155.0	38.3	70.39	-15,643.6	-324.3	1,720.7	1,509.9	210.83	8.162	
28,916.2	13,100.0	16,859.0	12,522.5	155.2	38.3	70.39	-15,643.6	-324.3	1,720.7	1,509.6	211.02	8.154 CC	
29,000.0	13,100.0	16,944.8	12,522.6	156.0	38.9	70.40	-15,729.4	-324.0	1,721.2	1,508.9	212.30	8.107	
29,025.3	13,100.0	16,968.2	12,522.7	156.2	39.1	70.40	-15,752.8	-323.8	1,721.1	1,508.4	212.68	8.093	
29,100.0	13,100.0	17,026.5	12,522.9	156.9	39.5	70.41	-15,811.1	-323.6	1,721.5	1,507.7	213.74	8.054 ES	
29,200.0	13,100.0	17,098.4	12,522.7	157.9	40.0	70.42	-15,883.0	-324.2	1,723.2	1,508.1	215.10	8.011	
29,300.0	13,100.0	17,180.2	12,521.3	158.8	40.6	70.40	-15,964.8	-325.9	1,726.5	1,510.0	216.47	7.976 SF	
29,398.9	13,100.0	17,199.0	12,521.0	159.7	40.8	70.40	-15,983.6	-326.3	1,732.0	1,515.0	217.00	7.981	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - HENNIN FED #24H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11883-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
25,500.0	13,100.0	13,713.2	12,632.0	123.2	15.6	76.45	-12,273.2	-676.5	1,997.4	1,831.7	165.66	12.057
25,600.0	13,100.0	13,791.1	12,635.8	124.1	16.0	76.55	-12,350.9	-675.6	1,996.0	1,828.9	167.07	11.947
25,700.0	13,100.0	13,889.6	12,640.2	125.0	16.5	76.67	-12,449.3	-674.7	1,995.0	1,826.4	168.52	11.838
25,800.0	13,100.0	13,983.8	12,643.1	126.0	17.0	76.75	-12,543.5	-673.7	1,994.1	1,824.2	169.94	11.734
25,891.3	13,100.0	14,062.2	12,644.1	126.8	17.4	76.78	-12,621.9	-672.9	1,993.8	1,822.6	171.19	11.646
25,900.0	13,100.0	14,068.6	12,644.2	126.9	17.5	76.78	-12,628.3	-672.8	1,993.8	1,822.5	171.31	11.639
26,000.0	13,100.0	14,142.7	12,645.1	127.8	17.9	76.82	-12,702.3	-672.9	1,994.6	1,821.9	172.63	11.554
26,100.0	13,100.0	14,241.0	12,648.0	128.8	18.5	76.91	-12,800.6	-674.2	1,996.0	1,821.9	174.08	11.466
26,200.0	13,100.0	14,336.2	12,651.0	129.7	19.0	77.01	-12,895.8	-675.6	1,997.7	1,822.2	175.53	11.381
26,300.0	13,100.0	14,472.0	12,655.4	130.6	19.9	77.15	-13,031.5	-676.4	1,998.5	1,821.3	177.16	11.281
26,400.0	13,100.0	14,575.0	12,659.9	131.6	20.5	77.28	-13,134.4	-676.2	1,998.2	1,819.5	178.67	11.184
26,434.0	13,100.0	14,608.0	12,661.2	131.9	20.7	77.31	-13,167.4	-676.1	1,998.1	1,819.0	179.17	11.152
26,500.0	13,100.0	14,637.9	12,662.2	132.5	20.9	77.35	-13,197.2	-676.3	1,998.6	1,818.7	180.00	11.104
27,400.0	13,100.0	15,640.0	12,695.6	140.9	27.8	78.32	-14,197.4	-673.7	1,999.1	1,805.1	193.96	10.307
27,500.0	13,100.0	15,733.0	12,696.7	141.9	28.5	78.34	-14,290.3	-669.9	1,995.8	1,800.4	195.44	10.212
27,600.0	13,100.0	15,873.7	12,700.9	142.8	29.5	78.42	-14,430.8	-663.4	1,991.5	1,794.5	196.98	10.110
27,700.0	13,100.0	15,952.3	12,704.0	143.7	30.1	78.50	-14,509.2	-659.8	1,987.1	1,788.6	198.51	10.010
27,800.0	13,100.0	16,041.2	12,707.1	144.7	30.7	78.57	-14,598.0	-656.3	1,983.5	1,783.4	200.04	9.915
27,900.0	13,100.0	16,138.1	12,709.6	145.6	31.4	78.62	-14,694.8	-652.7	1,980.2	1,778.6	201.56	9.824
28,000.0	13,100.0	16,202.0	12,712.0	146.6	31.8	78.68	-14,758.6	-650.3	1,977.2	1,774.2	203.02	9.739
28,072.7	13,100.0	16,246.6	12,713.3	147.2	32.2	78.71	-14,803.2	-649.4	1,976.3	1,772.2	204.04	9.686 CC
28,100.0	13,100.0	16,257.5	12,713.4	147.5	32.3	78.72	-14,814.0	-649.4	1,976.4	1,772.0	204.37	9.670 ES
28,200.0	13,100.0	16,299.1	12,713.2	148.4	32.6	78.72	-14,855.6	-650.0	1,978.7	1,773.2	205.51	9.628
28,300.0	13,100.0	16,391.0	12,710.9	149.4	33.2	78.67	-14,947.5	-652.1	1,982.5	1,775.6	206.91	9.581
28,400.0	13,100.0	16,462.6	12,708.2	150.3	33.7	78.61	-15,019.1	-654.3	1,987.2	1,779.1	208.12	9.548
28,500.0	13,100.0	16,567.2	12,704.5	151.3	34.5	78.54	-15,123.5	-658.8	1,993.0	1,783.4	209.61	9.508
28,600.0	13,100.0	16,674.0	12,704.5	152.2	35.2	78.56	-15,230.2	-662.5	1,997.2	1,786.0	211.19	9.457
28,800.0	13,100.0	17,053.0	12,708.7	154.1	38.2	78.69	-15,608.7	-659.4	1,995.9	1,780.8	215.19	9.275
28,900.0	13,100.0	17,099.9	12,707.8	155.0	38.5	78.65	-15,655.5	-657.9	1,993.7	1,777.1	216.59	9.205
28,973.0	13,100.0	17,148.0	12,706.3	155.7	38.8	78.61	-15,703.6	-656.9	1,993.2	1,775.7	217.58	9.161
29,000.0	13,100.0	17,168.0	12,705.6	156.0	39.0	78.59	-15,723.5	-656.6	1,993.3	1,775.4	217.95	9.146
29,100.0	13,100.0	17,253.2	12,704.4	156.9	39.6	78.56	-15,808.8	-656.2	1,994.1	1,774.7	219.37	9.090
29,200.0	13,100.0	17,358.3	12,706.6	157.9	40.4	78.63	-15,913.8	-656.3	1,994.7	1,773.7	220.97	9.027
29,300.0	13,100.0	17,431.0	12,708.2	158.8	40.9	78.68	-15,986.5	-656.9	1,996.0	1,773.7	222.36	8.976 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - JAZZBASS 34 FEDERAL 003H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:		100-r.5 MWD+IFR1+MS					Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
21,200.0	13,100.0	14,068.0	12,302.7	83.9	23.2	66.38	-8,101.1	-597.6	1,997.2	1,888.1	109.09	18.309	
21,300.0	13,100.0	13,972.8	12,305.5	84.8	22.7	66.36	-8,196.0	-589.1	1,988.7	1,878.7	110.03	18.073	
21,400.0	13,100.0	13,889.9	12,307.6	85.7	22.3	66.35	-8,278.5	-582.0	1,980.7	1,869.7	111.06	17.835	
21,500.0	13,100.0	13,800.8	12,310.4	86.6	21.9	66.35	-8,367.4	-575.4	1,973.5	1,861.4	112.08	17.609	
21,600.0	13,100.0	13,710.7	12,312.6	87.4	21.5	66.35	-8,457.2	-568.9	1,966.8	1,853.7	113.10	17.390	
21,700.0	13,100.0	13,625.1	12,315.5	88.3	21.1	66.37	-8,542.6	-563.6	1,960.6	1,846.4	114.15	17.175	
21,800.0	13,100.0	13,541.4	12,318.3	89.2	20.7	66.41	-8,626.0	-559.1	1,955.2	1,840.0	115.22	16.969	
21,900.0	13,100.0	13,455.1	12,321.1	90.1	20.4	66.44	-8,712.2	-555.2	1,950.7	1,834.4	116.30	16.773	
22,000.0	13,100.0	13,362.9	12,323.2	91.0	20.1	66.46	-8,804.3	-551.2	1,946.7	1,829.3	117.37	16.585	
22,100.0	13,100.0	13,267.6	12,325.8	91.9	19.8	66.50	-8,899.6	-547.6	1,942.9	1,824.5	118.46	16.402	
22,200.0	13,100.0	13,172.2	12,327.9	92.8	19.6	66.53	-8,994.8	-543.9	1,939.4	1,819.9	119.54	16.224	
22,300.0	13,100.0	13,078.8	12,329.0	93.8	19.5	66.52	-9,088.2	-540.2	1,936.2	1,815.5	120.62	16.052	
22,400.0	13,100.0	12,966.3	12,329.8	94.7	19.4	66.51	-9,200.5	-535.8	1,933.2	1,811.5	121.69	15.886	
22,500.0	13,100.0	12,842.4	12,333.7	95.6	19.3	66.56	-9,324.3	-530.3	1,928.6	1,805.8	122.78	15.707	
22,600.0	13,100.0	12,768.0	12,334.3	96.5	19.2	66.54	-9,398.6	-526.3	1,924.3	1,800.3	123.96	15.523	
22,700.0	13,100.0	12,705.0	12,332.3	97.4	19.2	66.44	-9,461.4	-522.6	1,921.3	1,796.2	125.10	15.358	
22,776.2	13,100.0	12,661.0	12,328.2	98.1	19.1	66.31	-9,505.2	-519.8	1,920.5	1,794.6	125.90	15.254 CC	
22,800.0	13,100.0	12,642.0	12,325.7	98.3	19.1	66.22	-9,523.9	-518.6	1,920.6	1,794.5	126.13	15.227 ES	
22,900.0	13,100.0	12,611.0	12,320.4	99.2	19.1	66.06	-9,554.4	-516.8	1,922.8	1,795.7	127.11	15.127	
23,000.0	13,100.0	12,579.0	12,313.5	100.1	19.1	65.86	-9,585.6	-515.3	1,928.3	1,800.4	127.93	15.074	
23,100.0	13,100.0	12,528.1	12,299.5	101.0	19.0	65.46	-9,634.4	-513.1	1,936.9	1,808.3	128.62	15.059 SF	
23,200.0	13,100.0	12,469.9	12,279.6	101.9	18.9	64.89	-9,689.1	-510.2	1,948.2	1,819.0	129.21	15.077	
23,300.0	13,100.0	12,422.0	12,260.6	102.9	18.8	64.35	-9,732.9	-507.3	1,961.7	1,832.0	129.68	15.127	
23,400.0	13,100.0	12,375.3	12,239.4	103.8	18.7	63.75	-9,774.5	-504.1	1,978.0	1,848.0	130.02	15.213	
23,500.0	13,100.0	12,339.4	12,221.4	104.7	18.6	63.25	-9,805.4	-501.7	1,997.6	1,867.4	130.21	15.341	

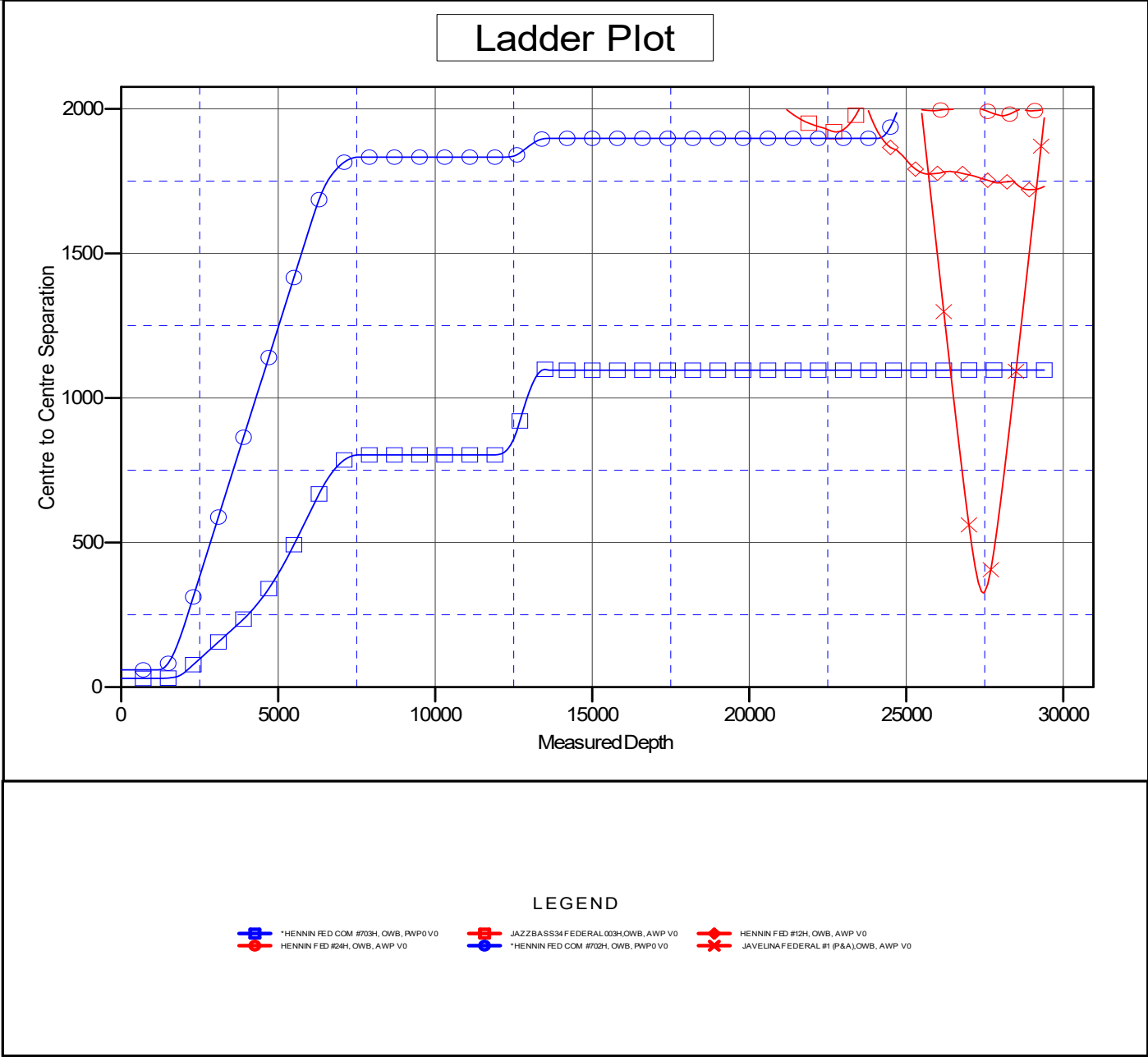
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3220.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *HENNIN FED COM #802H - Slot HENNIN FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.52°

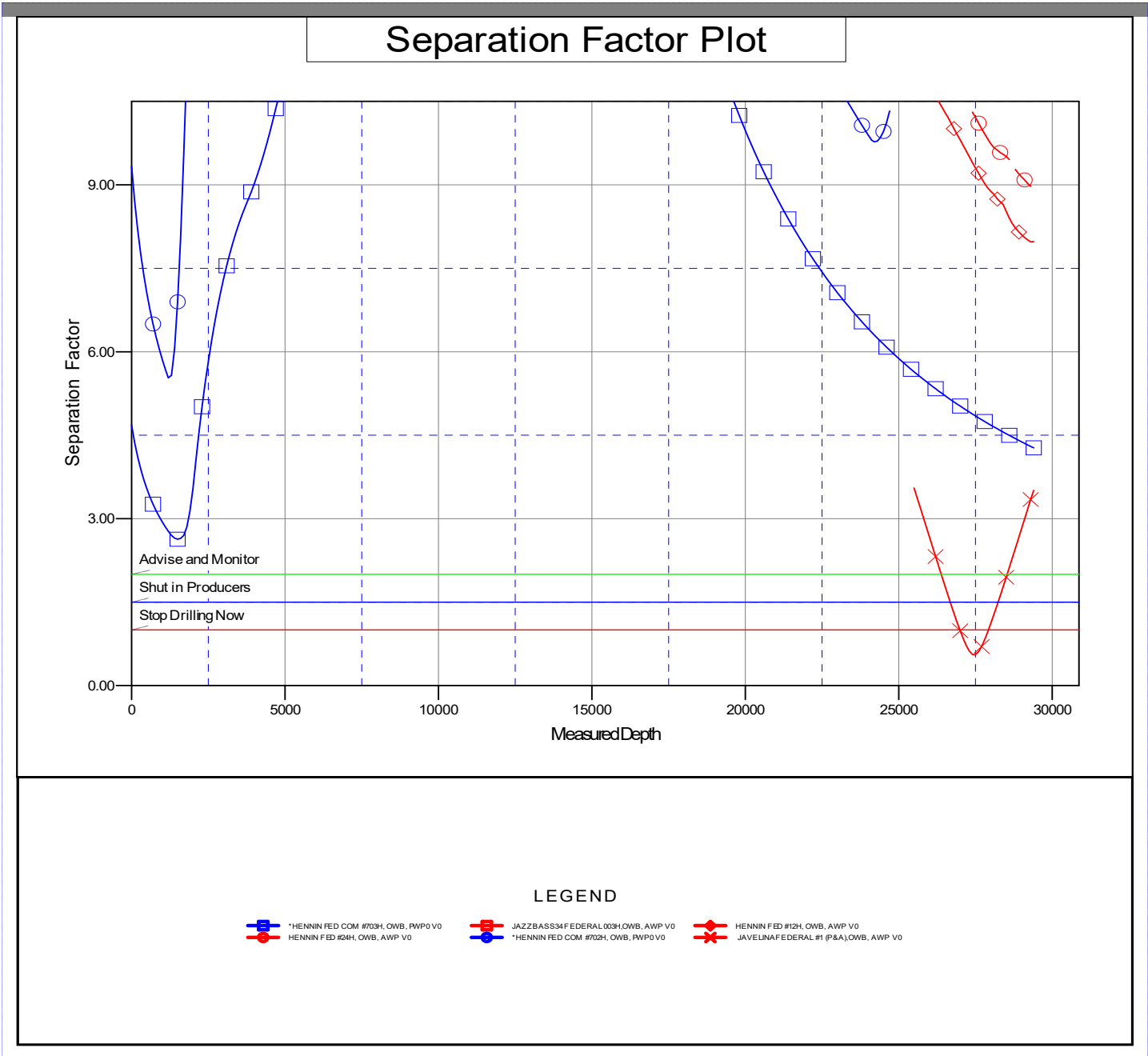


ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3220.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *HENNIN FED COM #802H - Slot HENNIN FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.52°



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

HENNIN PROJECT

***HENNIN FED COM #802H - Slot HENNIN FED COM #802H**

OWB

Plan: PWP0

Standard Planning Report

29 June, 2023

ConocoPhillips
Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	HENNIN PROJECT		
Site Position:		Northing:	397,009.03 usft
From:	Map	Easting:	803,170.42 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 15.761 N
		Longitude:	103° 21' 15.967 W

Well	*HENNIN FED COM #802H - Slot HENNIN FED COM #802H					
Well Position	+N/-S	0.0 usft	Northing:	404,899.13 usft	Latitude:	32° 6' 33.751 N
	+E/-W	0.0 usft	Easting:	804,105.72 usft	Longitude:	103° 21' 4.261 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,220.0 usft
Grid Convergence:		0.52 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	4/14/2023	6.18	59.66	47,393.11219480

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	175.38

Plan Survey Tool Program	Date	6/29/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	29,398.1 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,066.7	13.00	75.00	2,059.2	25.3	94.6	1.50	1.50	0.00	75.00	
6,254.8	13.00	75.00	6,140.0	269.2	1,004.6	0.00	0.00	0.00	0.00	
7,554.8	0.00	0.00	7,428.9	307.2	1,146.4	1.00	-1.00	0.00	180.00	
12,652.9	0.00	0.00	12,527.0	307.2	1,146.4	0.00	0.00	0.00	0.00	
13,552.9	90.00	179.46	13,100.0	-265.7	1,151.8	10.00	10.00	19.94	179.46	
29,398.1	90.00	179.46	13,100.0	-16,110.3	1,301.0	0.00	0.00	0.00	0.00	PBHL (HENNIN FED)

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	1.50	75.00	1,300.0	0.3	1.3	-0.2	1.50	1.50	0.00	
1,400.0	3.00	75.00	1,399.9	1.4	5.1	-0.9	1.50	1.50	0.00	
1,500.0	4.50	75.00	1,499.7	3.0	11.4	-2.1	1.50	1.50	0.00	
1,600.0	6.00	75.00	1,599.3	5.4	20.2	-3.8	1.50	1.50	0.00	
1,700.0	7.50	75.00	1,698.6	8.5	31.6	-5.9	1.50	1.50	0.00	
1,800.0	9.00	75.00	1,797.5	12.2	45.4	-8.5	1.50	1.50	0.00	
1,900.0	10.50	75.00	1,896.1	16.6	61.8	-11.5	1.50	1.50	0.00	
2,000.0	12.00	75.00	1,994.2	21.6	80.6	-15.0	1.50	1.50	0.00	
2,066.7	13.00	75.00	2,059.2	25.3	94.6	-17.6	1.50	1.50	0.00	
2,100.0	13.00	75.00	2,091.7	27.3	101.8	-19.0	0.00	0.00	0.00	
2,200.0	13.00	75.00	2,189.2	33.1	123.5	-23.1	0.00	0.00	0.00	
2,300.0	13.00	75.00	2,286.6	38.9	145.3	-27.1	0.00	0.00	0.00	
2,400.0	13.00	75.00	2,384.0	44.7	167.0	-31.2	0.00	0.00	0.00	
2,500.0	13.00	75.00	2,481.5	50.6	188.7	-35.2	0.00	0.00	0.00	
2,600.0	13.00	75.00	2,578.9	56.4	210.4	-39.3	0.00	0.00	0.00	
2,700.0	13.00	75.00	2,676.4	62.2	232.2	-43.3	0.00	0.00	0.00	
2,800.0	13.00	75.00	2,773.8	68.0	253.9	-47.4	0.00	0.00	0.00	
2,900.0	13.00	75.00	2,871.2	73.9	275.6	-51.4	0.00	0.00	0.00	
3,000.0	13.00	75.00	2,968.7	79.7	297.4	-55.5	0.00	0.00	0.00	
3,100.0	13.00	75.00	3,066.1	85.5	319.1	-59.5	0.00	0.00	0.00	
3,200.0	13.00	75.00	3,163.5	91.3	340.8	-63.6	0.00	0.00	0.00	
3,300.0	13.00	75.00	3,261.0	97.1	362.5	-67.6	0.00	0.00	0.00	
3,400.0	13.00	75.00	3,358.4	103.0	384.3	-71.7	0.00	0.00	0.00	
3,500.0	13.00	75.00	3,455.8	108.8	406.0	-75.8	0.00	0.00	0.00	
3,600.0	13.00	75.00	3,553.3	114.6	427.7	-79.8	0.00	0.00	0.00	
3,700.0	13.00	75.00	3,650.7	120.4	449.5	-83.9	0.00	0.00	0.00	
3,800.0	13.00	75.00	3,748.2	126.3	471.2	-87.9	0.00	0.00	0.00	
3,900.0	13.00	75.00	3,845.6	132.1	492.9	-92.0	0.00	0.00	0.00	
4,000.0	13.00	75.00	3,943.0	137.9	514.6	-96.0	0.00	0.00	0.00	
4,100.0	13.00	75.00	4,040.5	143.7	536.4	-100.1	0.00	0.00	0.00	
4,200.0	13.00	75.00	4,137.9	149.5	558.1	-104.1	0.00	0.00	0.00	
4,300.0	13.00	75.00	4,235.3	155.4	579.8	-108.2	0.00	0.00	0.00	
4,400.0	13.00	75.00	4,332.8	161.2	601.6	-112.2	0.00	0.00	0.00	
4,500.0	13.00	75.00	4,430.2	167.0	623.3	-116.3	0.00	0.00	0.00	
4,600.0	13.00	75.00	4,527.7	172.8	645.0	-120.4	0.00	0.00	0.00	
4,700.0	13.00	75.00	4,625.1	178.7	666.7	-124.4	0.00	0.00	0.00	
4,800.0	13.00	75.00	4,722.5	184.5	688.5	-128.5	0.00	0.00	0.00	
4,900.0	13.00	75.00	4,820.0	190.3	710.2	-132.5	0.00	0.00	0.00	
5,000.0	13.00	75.00	4,917.4	196.1	731.9	-136.6	0.00	0.00	0.00	
5,100.0	13.00	75.00	5,014.8	201.9	753.7	-140.6	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	13.00	75.00	5,112.3	207.8	775.4	-144.7	0.00	0.00	0.00	
5,300.0	13.00	75.00	5,209.7	213.6	797.1	-148.7	0.00	0.00	0.00	
5,400.0	13.00	75.00	5,307.1	219.4	818.9	-152.8	0.00	0.00	0.00	
5,500.0	13.00	75.00	5,404.6	225.2	840.6	-156.8	0.00	0.00	0.00	
5,600.0	13.00	75.00	5,502.0	231.1	862.3	-160.9	0.00	0.00	0.00	
5,700.0	13.00	75.00	5,599.5	236.9	884.0	-165.0	0.00	0.00	0.00	
5,800.0	13.00	75.00	5,696.9	242.7	905.8	-169.0	0.00	0.00	0.00	
5,900.0	13.00	75.00	5,794.3	248.5	927.5	-173.1	0.00	0.00	0.00	
6,000.0	13.00	75.00	5,891.8	254.3	949.2	-177.1	0.00	0.00	0.00	
6,100.0	13.00	75.00	5,989.2	260.2	971.0	-181.2	0.00	0.00	0.00	
6,200.0	13.00	75.00	6,086.6	266.0	992.7	-185.2	0.00	0.00	0.00	
6,254.8	13.00	75.00	6,140.0	269.2	1,004.6	-187.4	0.00	0.00	0.00	
6,300.0	12.55	75.00	6,184.1	271.8	1,014.2	-189.2	1.00	-1.00	0.00	
6,400.0	11.55	75.00	6,281.9	277.2	1,034.4	-193.0	1.00	-1.00	0.00	
6,500.0	10.55	75.00	6,380.1	282.1	1,052.9	-196.5	1.00	-1.00	0.00	
6,600.0	9.55	75.00	6,478.5	286.6	1,069.8	-199.6	1.00	-1.00	0.00	
6,700.0	8.55	75.00	6,577.3	290.7	1,085.0	-202.4	1.00	-1.00	0.00	
6,800.0	7.55	75.00	6,676.3	294.3	1,098.5	-205.0	1.00	-1.00	0.00	
6,900.0	6.55	75.00	6,775.5	297.5	1,110.3	-207.2	1.00	-1.00	0.00	
7,000.0	5.55	75.00	6,875.0	300.2	1,120.5	-209.1	1.00	-1.00	0.00	
7,100.0	4.55	75.00	6,974.6	302.5	1,129.0	-210.7	1.00	-1.00	0.00	
7,200.0	3.55	75.00	7,074.3	304.3	1,135.8	-211.9	1.00	-1.00	0.00	
7,300.0	2.55	75.00	7,174.2	305.7	1,141.0	-212.9	1.00	-1.00	0.00	
7,400.0	1.55	75.00	7,274.1	306.6	1,144.4	-213.5	1.00	-1.00	0.00	
7,500.0	0.55	75.00	7,374.1	307.1	1,146.2	-213.9	1.00	-1.00	0.00	
7,554.8	0.00	0.00	7,428.9	307.2	1,146.4	-213.9	1.00	-1.00	0.00	
7,600.0	0.00	0.00	7,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,574.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,674.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,774.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,874.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,974.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,074.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,174.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,274.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,374.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,574.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,674.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,774.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,874.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,974.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,074.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,174.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,274.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,374.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,574.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,674.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,774.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,874.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,974.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,074.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,300.0	0.00	0.00	10,174.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,274.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,374.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,574.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,674.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,774.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,874.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,974.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,074.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,174.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,274.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,374.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,574.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,674.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,774.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,874.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,100.0	0.00	0.00	11,974.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,074.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,300.0	0.00	0.00	12,174.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,400.0	0.00	0.00	12,274.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,500.0	0.00	0.00	12,374.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,600.0	0.00	0.00	12,474.1	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,652.9	0.00	0.00	12,527.0	307.2	1,146.4	-213.9	0.00	0.00	0.00	
12,700.0	4.71	179.46	12,574.1	305.2	1,146.4	-212.0	10.00	10.00	0.00	
12,750.0	9.71	179.46	12,623.7	299.0	1,146.5	-205.7	10.00	10.00	0.00	
12,800.0	14.71	179.46	12,672.5	288.4	1,146.6	-195.2	10.00	10.00	0.00	
12,850.0	19.71	179.46	12,720.3	273.6	1,146.7	-180.4	10.00	10.00	0.00	
12,900.0	24.71	179.46	12,766.5	254.7	1,146.9	-161.6	10.00	10.00	0.00	
12,950.0	29.71	179.46	12,811.0	231.9	1,147.1	-138.8	10.00	10.00	0.00	
13,000.0	34.71	179.46	12,853.3	205.2	1,147.4	-112.2	10.00	10.00	0.00	
13,050.0	39.71	179.46	12,893.1	175.0	1,147.7	-82.0	10.00	10.00	0.00	
13,100.0	44.71	179.46	12,930.1	141.4	1,148.0	-48.5	10.00	10.00	0.00	
13,150.0	49.71	179.46	12,964.1	104.7	1,148.3	-12.0	10.00	10.00	0.00	
13,200.0	54.71	179.46	12,994.7	65.2	1,148.7	27.4	10.00	10.00	0.00	
13,250.0	59.71	179.46	13,021.7	23.2	1,149.1	69.4	10.00	10.00	0.00	
13,300.0	64.71	179.46	13,045.1	-21.0	1,149.5	113.5	10.00	10.00	0.00	
13,350.0	69.71	179.46	13,064.4	-67.1	1,149.9	159.4	10.00	10.00	0.00	
13,400.0	74.71	179.46	13,079.7	-114.7	1,150.4	206.9	10.00	10.00	0.00	
13,450.0	79.71	179.46	13,090.7	-163.4	1,150.9	255.5	10.00	10.00	0.00	
13,500.0	84.71	179.46	13,097.5	-212.9	1,151.3	304.9	10.00	10.00	0.00	
13,552.9	90.00	179.46	13,100.0	-265.7	1,151.8	357.6	10.00	10.00	0.00	
13,600.0	90.00	179.46	13,100.0	-312.9	1,152.3	404.6	0.00	0.00	0.00	
13,700.0	90.00	179.46	13,100.0	-412.9	1,153.2	504.3	0.00	0.00	0.00	
13,800.0	90.00	179.46	13,100.0	-512.9	1,154.1	604.1	0.00	0.00	0.00	
13,900.0	90.00	179.46	13,100.0	-612.9	1,155.1	703.8	0.00	0.00	0.00	
14,000.0	90.00	179.46	13,100.0	-712.8	1,156.0	803.6	0.00	0.00	0.00	
14,100.0	90.00	179.46	13,100.0	-812.8	1,157.0	903.3	0.00	0.00	0.00	
14,200.0	90.00	179.46	13,100.0	-912.8	1,157.9	1,003.1	0.00	0.00	0.00	
14,300.0	90.00	179.46	13,100.0	-1,012.8	1,158.9	1,102.8	0.00	0.00	0.00	
14,400.0	90.00	179.46	13,100.0	-1,112.8	1,159.8	1,202.6	0.00	0.00	0.00	
14,500.0	90.00	179.46	13,100.0	-1,212.8	1,160.7	1,302.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,600.0	90.00	179.46	13,100.0	-1,312.8	1,161.7	1,402.1	0.00	0.00	0.00
14,700.0	90.00	179.46	13,100.0	-1,412.8	1,162.6	1,501.8	0.00	0.00	0.00
14,800.0	90.00	179.46	13,100.0	-1,512.8	1,163.6	1,601.6	0.00	0.00	0.00
14,900.0	90.00	179.46	13,100.0	-1,612.8	1,164.5	1,701.3	0.00	0.00	0.00
15,000.0	90.00	179.46	13,100.0	-1,712.8	1,165.4	1,801.1	0.00	0.00	0.00
15,100.0	90.00	179.46	13,100.0	-1,812.8	1,166.4	1,900.8	0.00	0.00	0.00
15,200.0	90.00	179.46	13,100.0	-1,912.8	1,167.3	2,000.5	0.00	0.00	0.00
15,300.0	90.00	179.46	13,100.0	-2,012.8	1,168.3	2,100.3	0.00	0.00	0.00
15,400.0	90.00	179.46	13,100.0	-2,112.8	1,169.2	2,200.0	0.00	0.00	0.00
15,500.0	90.00	179.46	13,100.0	-2,212.8	1,170.2	2,299.8	0.00	0.00	0.00
15,600.0	90.00	179.46	13,100.0	-2,312.8	1,171.1	2,399.5	0.00	0.00	0.00
15,700.0	90.00	179.46	13,100.0	-2,412.8	1,172.0	2,499.3	0.00	0.00	0.00
15,800.0	90.00	179.46	13,100.0	-2,512.8	1,173.0	2,599.0	0.00	0.00	0.00
15,900.0	90.00	179.46	13,100.0	-2,612.8	1,173.9	2,698.8	0.00	0.00	0.00
16,000.0	90.00	179.46	13,100.0	-2,712.8	1,174.9	2,798.5	0.00	0.00	0.00
16,100.0	90.00	179.46	13,100.0	-2,812.8	1,175.8	2,898.3	0.00	0.00	0.00
16,200.0	90.00	179.46	13,100.0	-2,912.7	1,176.7	2,998.0	0.00	0.00	0.00
16,300.0	90.00	179.46	13,100.0	-3,012.7	1,177.7	3,097.8	0.00	0.00	0.00
16,400.0	90.00	179.46	13,100.0	-3,112.7	1,178.6	3,197.5	0.00	0.00	0.00
16,500.0	90.00	179.46	13,100.0	-3,212.7	1,179.6	3,297.3	0.00	0.00	0.00
16,600.0	90.00	179.46	13,100.0	-3,312.7	1,180.5	3,397.0	0.00	0.00	0.00
16,700.0	90.00	179.46	13,100.0	-3,412.7	1,181.5	3,496.8	0.00	0.00	0.00
16,800.0	90.00	179.46	13,100.0	-3,512.7	1,182.4	3,596.5	0.00	0.00	0.00
16,900.0	90.00	179.46	13,100.0	-3,612.7	1,183.3	3,696.2	0.00	0.00	0.00
17,000.0	90.00	179.46	13,100.0	-3,712.7	1,184.3	3,796.0	0.00	0.00	0.00
17,100.0	90.00	179.46	13,100.0	-3,812.7	1,185.2	3,895.7	0.00	0.00	0.00
17,200.0	90.00	179.46	13,100.0	-3,912.7	1,186.2	3,995.5	0.00	0.00	0.00
17,300.0	90.00	179.46	13,100.0	-4,012.7	1,187.1	4,095.2	0.00	0.00	0.00
17,400.0	90.00	179.46	13,100.0	-4,112.7	1,188.0	4,195.0	0.00	0.00	0.00
17,500.0	90.00	179.46	13,100.0	-4,212.7	1,189.0	4,294.7	0.00	0.00	0.00
17,600.0	90.00	179.46	13,100.0	-4,312.7	1,189.9	4,394.5	0.00	0.00	0.00
17,700.0	90.00	179.46	13,100.0	-4,412.7	1,190.9	4,494.2	0.00	0.00	0.00
17,800.0	90.00	179.46	13,100.0	-4,512.7	1,191.8	4,594.0	0.00	0.00	0.00
17,900.0	90.00	179.46	13,100.0	-4,612.7	1,192.8	4,693.7	0.00	0.00	0.00
18,000.0	90.00	179.46	13,100.0	-4,712.7	1,193.7	4,793.5	0.00	0.00	0.00
18,100.0	90.00	179.46	13,100.0	-4,812.7	1,194.6	4,893.2	0.00	0.00	0.00
18,200.0	90.00	179.46	13,100.0	-4,912.7	1,195.6	4,993.0	0.00	0.00	0.00
18,300.0	90.00	179.46	13,100.0	-5,012.7	1,196.5	5,092.7	0.00	0.00	0.00
18,400.0	90.00	179.46	13,100.0	-5,112.7	1,197.5	5,192.4	0.00	0.00	0.00
18,500.0	90.00	179.46	13,100.0	-5,212.6	1,198.4	5,292.2	0.00	0.00	0.00
18,600.0	90.00	179.46	13,100.0	-5,312.6	1,199.3	5,391.9	0.00	0.00	0.00
18,700.0	90.00	179.46	13,100.0	-5,412.6	1,200.3	5,491.7	0.00	0.00	0.00
18,800.0	90.00	179.46	13,100.0	-5,512.6	1,201.2	5,591.4	0.00	0.00	0.00
18,900.0	90.00	179.46	13,100.0	-5,612.6	1,202.2	5,691.2	0.00	0.00	0.00
19,000.0	90.00	179.46	13,100.0	-5,712.6	1,203.1	5,790.9	0.00	0.00	0.00
19,100.0	90.00	179.46	13,100.0	-5,812.6	1,204.1	5,890.7	0.00	0.00	0.00
19,200.0	90.00	179.46	13,100.0	-5,912.6	1,205.0	5,990.4	0.00	0.00	0.00
19,300.0	90.00	179.46	13,100.0	-6,012.6	1,205.9	6,090.2	0.00	0.00	0.00
19,400.0	90.00	179.46	13,100.0	-6,112.6	1,206.9	6,189.9	0.00	0.00	0.00
19,500.0	90.00	179.46	13,100.0	-6,212.6	1,207.8	6,289.7	0.00	0.00	0.00
19,600.0	90.00	179.46	13,100.0	-6,312.6	1,208.8	6,389.4	0.00	0.00	0.00
19,700.0	90.00	179.46	13,100.0	-6,412.6	1,209.7	6,489.2	0.00	0.00	0.00
19,800.0	90.00	179.46	13,100.0	-6,512.6	1,210.6	6,588.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,900.0	90.00	179.46	13,100.0	-6,612.6	1,211.6	6,688.7	0.00	0.00	0.00	
20,000.0	90.00	179.46	13,100.0	-6,712.6	1,212.5	6,788.4	0.00	0.00	0.00	
20,100.0	90.00	179.46	13,100.0	-6,812.6	1,213.5	6,888.1	0.00	0.00	0.00	
20,200.0	90.00	179.46	13,100.0	-6,912.6	1,214.4	6,987.9	0.00	0.00	0.00	
20,300.0	90.00	179.46	13,100.0	-7,012.6	1,215.4	7,087.6	0.00	0.00	0.00	
20,400.0	90.00	179.46	13,100.0	-7,112.6	1,216.3	7,187.4	0.00	0.00	0.00	
20,500.0	90.00	179.46	13,100.0	-7,212.6	1,217.2	7,287.1	0.00	0.00	0.00	
20,600.0	90.00	179.46	13,100.0	-7,312.6	1,218.2	7,386.9	0.00	0.00	0.00	
20,700.0	90.00	179.46	13,100.0	-7,412.5	1,219.1	7,486.6	0.00	0.00	0.00	
20,800.0	90.00	179.46	13,100.0	-7,512.5	1,220.1	7,586.4	0.00	0.00	0.00	
20,900.0	90.00	179.46	13,100.0	-7,612.5	1,221.0	7,686.1	0.00	0.00	0.00	
21,000.0	90.00	179.46	13,100.0	-7,712.5	1,221.9	7,785.9	0.00	0.00	0.00	
21,100.0	90.00	179.46	13,100.0	-7,812.5	1,222.9	7,885.6	0.00	0.00	0.00	
21,200.0	90.00	179.46	13,100.0	-7,912.5	1,223.8	7,985.4	0.00	0.00	0.00	
21,300.0	90.00	179.46	13,100.0	-8,012.5	1,224.8	8,085.1	0.00	0.00	0.00	
21,400.0	90.00	179.46	13,100.0	-8,112.5	1,225.7	8,184.9	0.00	0.00	0.00	
21,500.0	90.00	179.46	13,100.0	-8,212.5	1,226.7	8,284.6	0.00	0.00	0.00	
21,600.0	90.00	179.46	13,100.0	-8,312.5	1,227.6	8,384.3	0.00	0.00	0.00	
21,700.0	90.00	179.46	13,100.0	-8,412.5	1,228.5	8,484.1	0.00	0.00	0.00	
21,800.0	90.00	179.46	13,100.0	-8,512.5	1,229.5	8,583.8	0.00	0.00	0.00	
21,900.0	90.00	179.46	13,100.0	-8,612.5	1,230.4	8,683.6	0.00	0.00	0.00	
22,000.0	90.00	179.46	13,100.0	-8,712.5	1,231.4	8,783.3	0.00	0.00	0.00	
22,100.0	90.00	179.46	13,100.0	-8,812.5	1,232.3	8,883.1	0.00	0.00	0.00	
22,200.0	90.00	179.46	13,100.0	-8,912.5	1,233.2	8,982.8	0.00	0.00	0.00	
22,300.0	90.00	179.46	13,100.0	-9,012.5	1,234.2	9,082.6	0.00	0.00	0.00	
22,400.0	90.00	179.46	13,100.0	-9,112.5	1,235.1	9,182.3	0.00	0.00	0.00	
22,500.0	90.00	179.46	13,100.0	-9,212.5	1,236.1	9,282.1	0.00	0.00	0.00	
22,600.0	90.00	179.46	13,100.0	-9,312.5	1,237.0	9,381.8	0.00	0.00	0.00	
22,700.0	90.00	179.46	13,100.0	-9,412.5	1,238.0	9,481.6	0.00	0.00	0.00	
22,800.0	90.00	179.46	13,100.0	-9,512.5	1,238.9	9,581.3	0.00	0.00	0.00	
22,900.0	90.00	179.46	13,100.0	-9,612.5	1,239.8	9,681.1	0.00	0.00	0.00	
23,000.0	90.00	179.46	13,100.0	-9,712.4	1,240.8	9,780.8	0.00	0.00	0.00	
23,100.0	90.00	179.46	13,100.0	-9,812.4	1,241.7	9,880.6	0.00	0.00	0.00	
23,200.0	90.00	179.46	13,100.0	-9,912.4	1,242.7	9,980.3	0.00	0.00	0.00	
23,300.0	90.00	179.46	13,100.0	-10,012.4	1,243.6	10,080.0	0.00	0.00	0.00	
23,400.0	90.00	179.46	13,100.0	-10,112.4	1,244.5	10,179.8	0.00	0.00	0.00	
23,500.0	90.00	179.46	13,100.0	-10,212.4	1,245.5	10,279.5	0.00	0.00	0.00	
23,600.0	90.00	179.46	13,100.0	-10,312.4	1,246.4	10,379.3	0.00	0.00	0.00	
23,700.0	90.00	179.46	13,100.0	-10,412.4	1,247.4	10,479.0	0.00	0.00	0.00	
23,800.0	90.00	179.46	13,100.0	-10,512.4	1,248.3	10,578.8	0.00	0.00	0.00	
23,900.0	90.00	179.46	13,100.0	-10,612.4	1,249.3	10,678.5	0.00	0.00	0.00	
24,000.0	90.00	179.46	13,100.0	-10,712.4	1,250.2	10,778.3	0.00	0.00	0.00	
24,100.0	90.00	179.46	13,100.0	-10,812.4	1,251.1	10,878.0	0.00	0.00	0.00	
24,200.0	90.00	179.46	13,100.0	-10,912.4	1,252.1	10,977.8	0.00	0.00	0.00	
24,300.0	90.00	179.46	13,100.0	-11,012.4	1,253.0	11,077.5	0.00	0.00	0.00	
24,400.0	90.00	179.46	13,100.0	-11,112.4	1,254.0	11,177.3	0.00	0.00	0.00	
24,500.0	90.00	179.46	13,100.0	-11,212.4	1,254.9	11,277.0	0.00	0.00	0.00	
24,600.0	90.00	179.46	13,100.0	-11,312.4	1,255.8	11,376.8	0.00	0.00	0.00	
24,700.0	90.00	179.46	13,100.0	-11,412.4	1,256.8	11,476.5	0.00	0.00	0.00	
24,800.0	90.00	179.46	13,100.0	-11,512.4	1,257.7	11,576.3	0.00	0.00	0.00	
24,900.0	90.00	179.46	13,100.0	-11,612.4	1,258.7	11,676.0	0.00	0.00	0.00	
25,000.0	90.00	179.46	13,100.0	-11,712.4	1,259.6	11,775.7	0.00	0.00	0.00	
25,100.0	90.00	179.46	13,100.0	-11,812.4	1,260.6	11,875.5	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
25,200.0	90.00	179.46	13,100.0	-11,912.4	1,261.5	11,975.2	0.00	0.00	0.00	
25,300.0	90.00	179.46	13,100.0	-12,012.3	1,262.4	12,075.0	0.00	0.00	0.00	
25,400.0	90.00	179.46	13,100.0	-12,112.3	1,263.4	12,174.7	0.00	0.00	0.00	
25,500.0	90.00	179.46	13,100.0	-12,212.3	1,264.3	12,274.5	0.00	0.00	0.00	
25,600.0	90.00	179.46	13,100.0	-12,312.3	1,265.3	12,374.2	0.00	0.00	0.00	
25,700.0	90.00	179.46	13,100.0	-12,412.3	1,266.2	12,474.0	0.00	0.00	0.00	
25,800.0	90.00	179.46	13,100.0	-12,512.3	1,267.1	12,573.7	0.00	0.00	0.00	
25,900.0	90.00	179.46	13,100.0	-12,612.3	1,268.1	12,673.5	0.00	0.00	0.00	
26,000.0	90.00	179.46	13,100.0	-12,712.3	1,269.0	12,773.2	0.00	0.00	0.00	
26,100.0	90.00	179.46	13,100.0	-12,812.3	1,270.0	12,873.0	0.00	0.00	0.00	
26,200.0	90.00	179.46	13,100.0	-12,912.3	1,270.9	12,972.7	0.00	0.00	0.00	
26,300.0	90.00	179.46	13,100.0	-13,012.3	1,271.9	13,072.5	0.00	0.00	0.00	
26,400.0	90.00	179.46	13,100.0	-13,112.3	1,272.8	13,172.2	0.00	0.00	0.00	
26,500.0	90.00	179.46	13,100.0	-13,212.3	1,273.7	13,271.9	0.00	0.00	0.00	
26,600.0	90.00	179.46	13,100.0	-13,312.3	1,274.7	13,371.7	0.00	0.00	0.00	
26,700.0	90.00	179.46	13,100.0	-13,412.3	1,275.6	13,471.4	0.00	0.00	0.00	
26,800.0	90.00	179.46	13,100.0	-13,512.3	1,276.6	13,571.2	0.00	0.00	0.00	
26,900.0	90.00	179.46	13,100.0	-13,612.3	1,277.5	13,670.9	0.00	0.00	0.00	
27,000.0	90.00	179.46	13,100.0	-13,712.3	1,278.4	13,770.7	0.00	0.00	0.00	
27,100.0	90.00	179.46	13,100.0	-13,812.3	1,279.4	13,870.4	0.00	0.00	0.00	
27,200.0	90.00	179.46	13,100.0	-13,912.3	1,280.3	13,970.2	0.00	0.00	0.00	
27,300.0	90.00	179.46	13,100.0	-14,012.3	1,281.3	14,069.9	0.00	0.00	0.00	
27,400.0	90.00	179.46	13,100.0	-14,112.3	1,282.2	14,169.7	0.00	0.00	0.00	
27,500.0	90.00	179.46	13,100.0	-14,212.2	1,283.2	14,269.4	0.00	0.00	0.00	
27,600.0	90.00	179.46	13,100.0	-14,312.2	1,284.1	14,369.2	0.00	0.00	0.00	
27,700.0	90.00	179.46	13,100.0	-14,412.2	1,285.0	14,468.9	0.00	0.00	0.00	
27,800.0	90.00	179.46	13,100.0	-14,512.2	1,286.0	14,568.7	0.00	0.00	0.00	
27,900.0	90.00	179.46	13,100.0	-14,612.2	1,286.9	14,668.4	0.00	0.00	0.00	
28,000.0	90.00	179.46	13,100.0	-14,712.2	1,287.9	14,768.2	0.00	0.00	0.00	
28,100.0	90.00	179.46	13,100.0	-14,812.2	1,288.8	14,867.9	0.00	0.00	0.00	
28,200.0	90.00	179.46	13,100.0	-14,912.2	1,289.7	14,967.6	0.00	0.00	0.00	
28,300.0	90.00	179.46	13,100.0	-15,012.2	1,290.7	15,067.4	0.00	0.00	0.00	
28,400.0	90.00	179.46	13,100.0	-15,112.2	1,291.6	15,167.1	0.00	0.00	0.00	
28,500.0	90.00	179.46	13,100.0	-15,212.2	1,292.6	15,266.9	0.00	0.00	0.00	
28,600.0	90.00	179.46	13,100.0	-15,312.2	1,293.5	15,366.6	0.00	0.00	0.00	
28,700.0	90.00	179.46	13,100.0	-15,412.2	1,294.5	15,466.4	0.00	0.00	0.00	
28,800.0	90.00	179.46	13,100.0	-15,512.2	1,295.4	15,566.1	0.00	0.00	0.00	
28,900.0	90.00	179.46	13,100.0	-15,612.2	1,296.3	15,665.9	0.00	0.00	0.00	
29,000.0	90.00	179.46	13,100.0	-15,712.2	1,297.3	15,765.6	0.00	0.00	0.00	
29,100.0	90.00	179.46	13,100.0	-15,812.2	1,298.2	15,865.4	0.00	0.00	0.00	
29,200.0	90.00	179.46	13,100.0	-15,912.2	1,299.2	15,965.1	0.00	0.00	0.00	
29,300.0	90.00	179.46	13,100.0	-16,012.2	1,300.1	16,064.9	0.00	0.00	0.00	
29,398.1	90.00	179.46	13,100.0	-16,110.3	1,301.0	16,162.7	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #802H - Slot HENNIN FED COM #802H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LTP (HENNIN FED COM - plan misses target center by 48.1usft at 29300.0usft MD (13100.0 TVD, -16012.2 N, 1300.1 E) - Circle (radius 50.0)	90.00	179.45	13,100.0	-16,060.3	1,300.3	388,838.87	805,406.05	32° 3' 54.715 N	103° 20' 50.851 W
FTP (HENNIN FED COM - plan misses target center by 1.4usft at 13710.8usft MD (13100.0 TVD, -423.7 N, 1153.3 E) - Circle (radius 50.0)	0.00	0.00	13,100.0	-423.7	1,154.7	404,475.46	805,260.44	32° 6' 29.454 N	103° 20' 50.883 W
PBHL (HENNIN FED CC - plan hits target center - Rectangle (sides W100.0 H15,696.1 D20.0)	0.00	359.46	13,100.0	-16,110.3	1,301.0	388,788.87	805,406.75	32° 3' 54.220 N	103° 20' 50.849 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
29,399.0	13,100.0	5-1/2" Production Casing	5-1/2	6-3/4	



Project: BULLDOG PROSPECT (NM-E)
Site: HENNIN PROJECT
Well: *HENNIN FED COM #802H
Wellbore: OWS
Design: PWP0
GL: 3220.0
WELL @ 3220.0usft (Original Well Elev)

WELL DETAILS: *HENNIN FED COM #802H

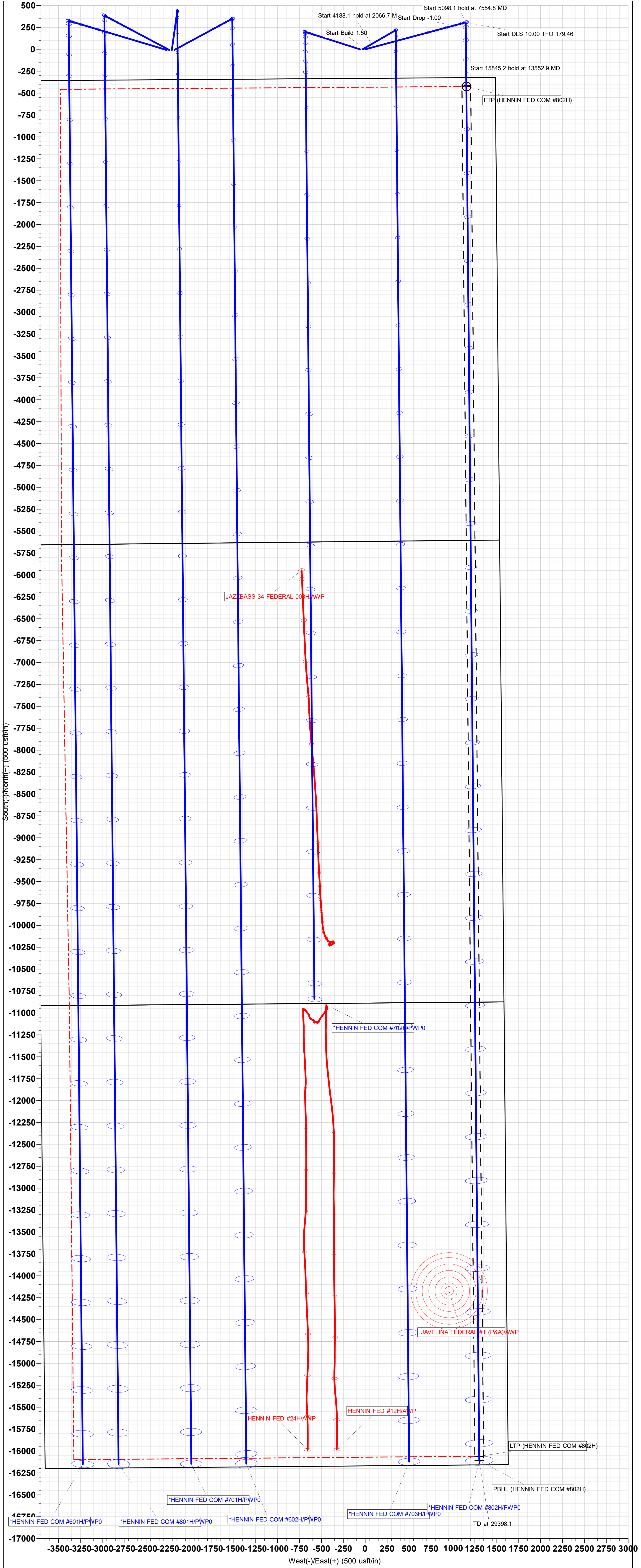
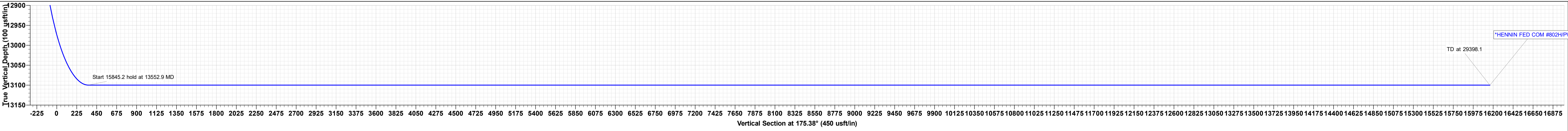
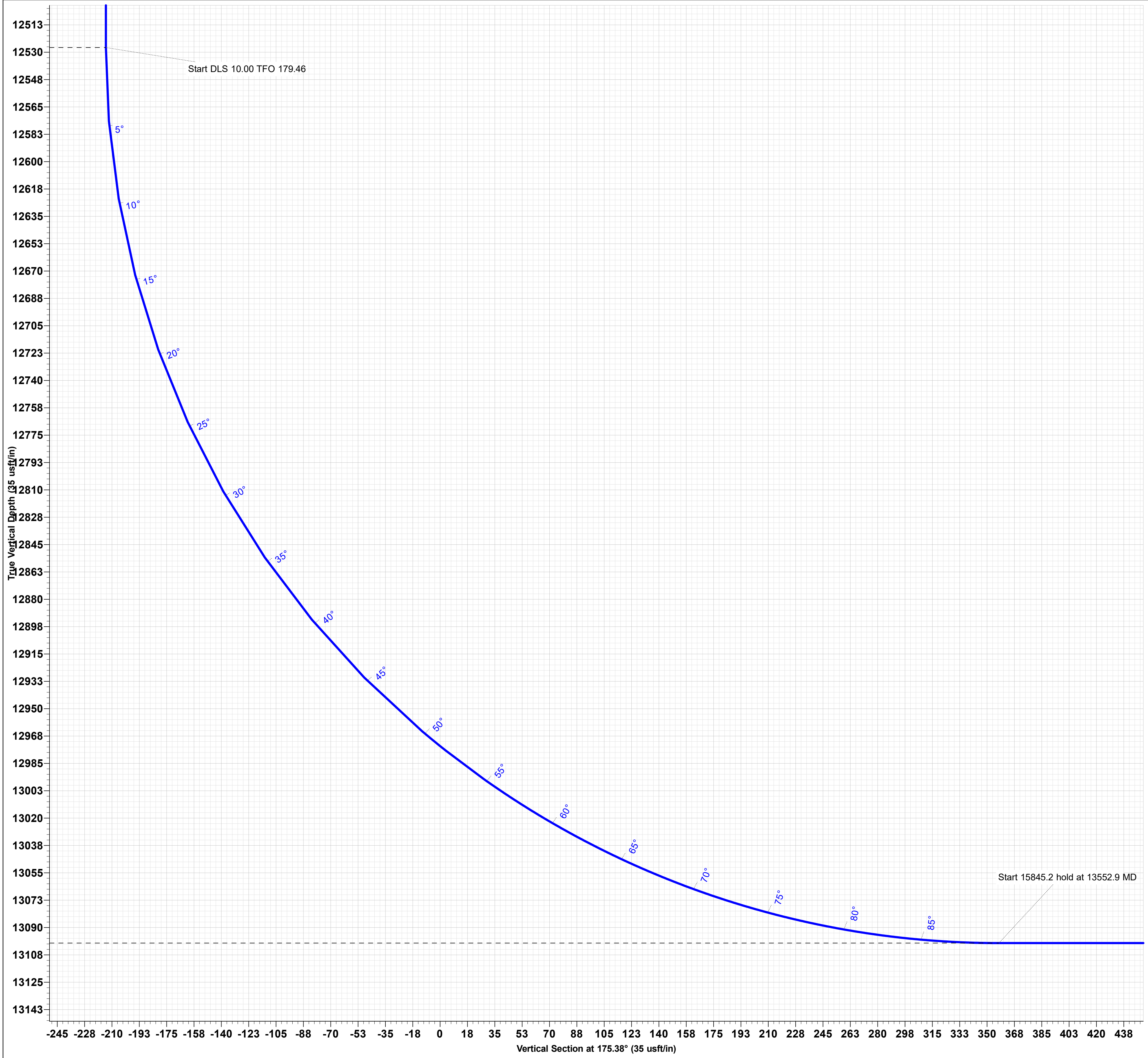
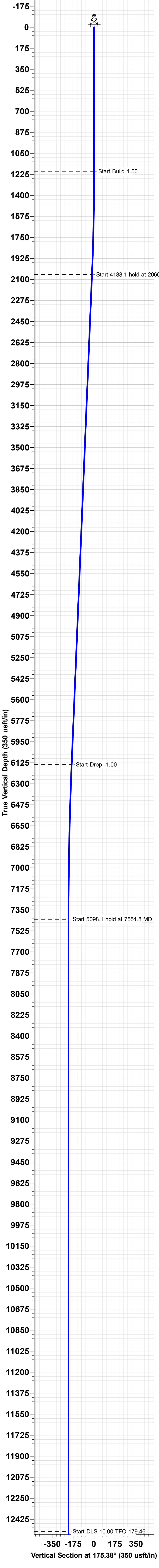
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	404899.14	804105.72	32° 6' 33.751 N	103° 21' 4.261 W HENNIN FED COM #802H

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (HENNIN FED COM #802H)	13100.0	-423.7	1154.7	404475.46	805260.45
LTP (HENNIN FED COM #802H)	13100.0	-16060.3	1300.3	388838.87	805406.06
PBHL (HENNIN FED COM #802H)	13100.0	-16110.3	1301.0	388788.87	805406.76

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0
2066.7	13.00	75.00	2069.2	25.3	94.6	1.50	75.00	-17.6
6254.8	13.00	75.00	6140.0	269.2	1004.6	0.00	0.00	-187.4
7554.8	0.00	0.00	7428.9	307.2	1146.4	1.00	180.00	-213.9
12652.9	0.00	0.00	12527.0	307.2	1146.4	0.00	0.00	-213.9
13552.9	90.00	179.46	13100.0	-265.7	1151.8	10.00	179.46	357.6
29398.1	90.00	179.46	13100.0	-16110.3	1301.0	0.00	0.00	16162.7



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	HENNIN FED COM 802H
SURFACE HOLE FOOTAGE:	330'/S & 1480'/E
BOTTOM HOLE FOOTAGE:	50'/S & 330'/E
LOCATION:	Section 22, T.25 S., R.35 E.
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately **869 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the

salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4 inch** in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Contingency:

Operator has proposed a contingency if losses are encountered, a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

3. **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.** The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Casing Clearance:

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in

the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e.

against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/29/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 400724

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 400724
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/8/2024
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/8/2024
pkautz	MUST SUBMIT CORRECTED C-102 BEFORE SPUDING. DATA ON PAGE 1 DOES NOT MATCH PAGE 2.	11/26/2024
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/26/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/26/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/26/2024